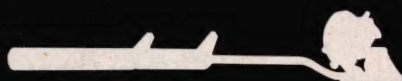
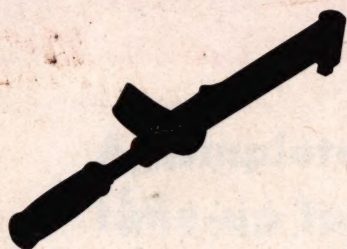




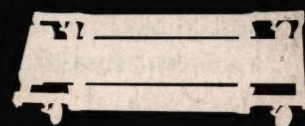
CATALOG NUMBER 305

 **HASTINGS** 

780
**SERVICE
TOOLS**



HASTINGS MANUFACTURING COMPANY
HASTINGS, MICHIGAN
HASTINGS LTD., TORONTO
EXPORT DEPARTMENT:
4900 EUCLID AVENUE
CLEVELAND 3, OHIO, U.S.A.



to automotive servicemen everywhere

● Hastings always has been aware that skilled overhaul techniques are as important as good parts in turning out satisfactory engine repair jobs. To this end, Hastings has spent considerable time and energy in the development of new tools that would help automotive repairmen do a better job.

An illustration of this Hastings policy is the Ridge Reamer. Years ago Hastings engineers recognized the importance of removing the cylinder ridge when rings were replaced. They went to work and designed a tool with a low cost replaceable blade. In making this tool available, they helped establish ridge reaming as a standard overhaul practice. Today there are fewer comebacks

and many more satisfactory ring jobs because of this one tool. In the following pages you will find illustrations and descriptions of our complete line of tools. Most of them are hand tools for the mechanic. Some are automotive machine shop tools. All are designed and produced with one purpose in mind—to help the mechanic do a better job. These tools have been thoroughly tested in service. Their accuracy and quality are guaranteed.

There are several new tools available for the first time in this catalog. In it you will find many items that will solve problems for you—help you increase your efficiency and your profit. All of these tools are available from your Hastings Jobber.

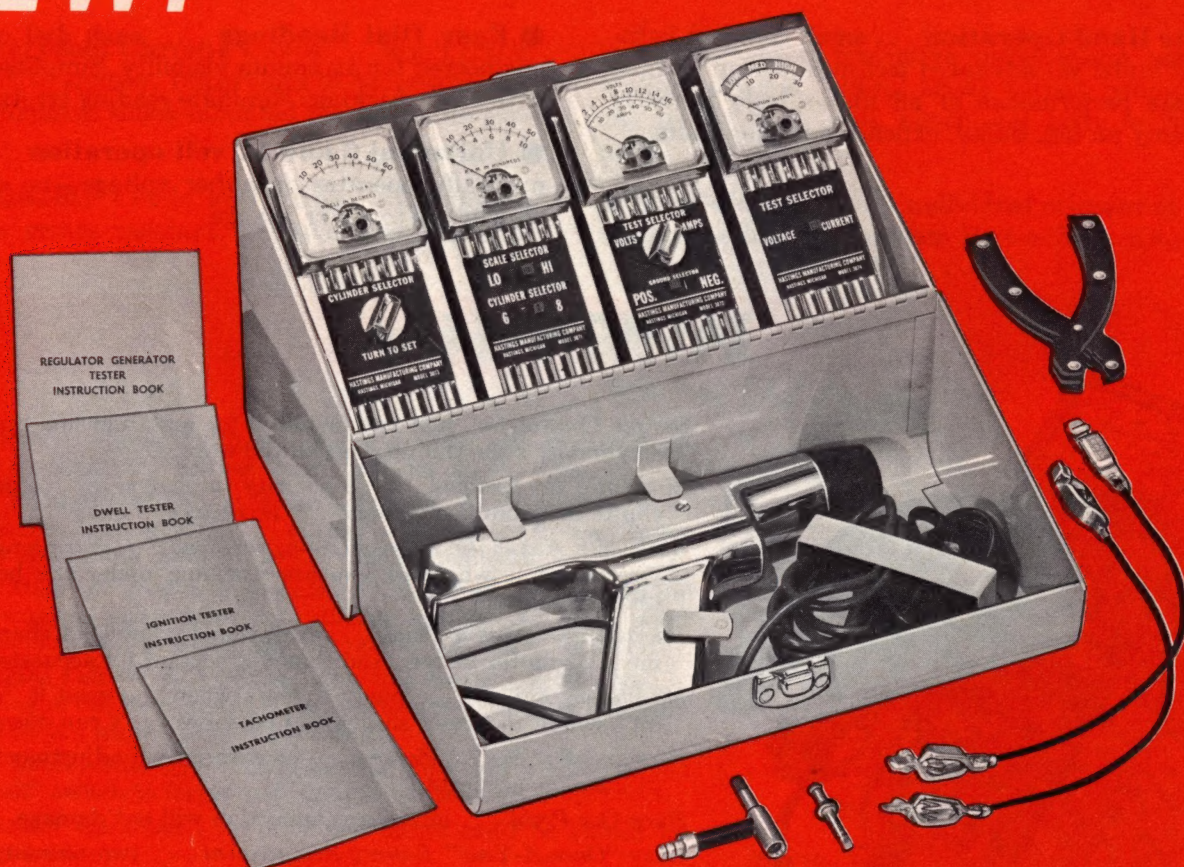
Hastings Manufacturing Company

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NEW! PORT-A-TUNE KIT



A complete set of portable tune-up tools designed for mechanics

Increase tune-up profits with this complete set of precision equipment that enables you to make tune-ups faster, easier and more accurately.

Complete, individual, one hand operated tools perform every major step in tune-ups on either 6 or 12 volt systems.

Simple—Each tool engineered to do a specific job. Anyone can be an "expert" in minutes. One easy reading dial to check. No complicated maze of dials, switches, scales and connections as required with big, bulky, expensive analyzers. No training course required—the know-how is built into the tools.

Compact—All units in matching shatter-proof chrome cases, nested neatly, ready for use, in lightweight all metal carrying case. No bigger or heavier than an ordinary tool box.



Part No. 3075

Economical—Low cost plus versatility make this equipment a "must" for every tune-up mechanic.

Kit includes:

Part No.		Part No.	
3071	Tachometer	3199	All metal carrying case
3072	Regulator Tester	1066	Insulated Pliers
3073	Dwell Meter	1075	Adapter for 3074
3074	Ignition Tester		plus jumper leads and complete instructions
1381	Timing Light		

Replacement gauge head lens available, Part No. 1045

Hastings Tune-up Tools do the job

● **One Hand Operation** . . . small compact light-weight units, yet advanced technical design permits accurate performance of all major tests formerly done only on big, bulky, expensive testing units.

● **Easy Dial Readings** . . . each dial carefully engineered for maximum visibility. Simplified scales with clear markings eliminate reading errors.

● **Universal 6 and 12 volt operation** . . . automatically operates on either voltage—no switches or controls to set or change.

TACHOMETER



Part No. 3071

Simple Controls . . . just two switches for high and low range—6 or 8 cylinder. Your thumb does all the work.

Simplified Connections . . . no polarity to observe . . . connect either clip to distributor or ground . . . no chance of error.

Built with Automatic Transmissions in Mind . . . extra long leads let you watch it wherever you are working, under the hood, in or under the car.

Doesn't Steal Engine Power . . . exceptionally low load characteristics mean no motor misses. And that's important for accurate readings.

No Battery Failures . . . ready to work when you want it . . . no "on-off" switch to forget, so internal batteries can't run down.

Permanently "Set" at Factory . . . no external set adjustment to forget . . . always accurate.

Burn-Out Proof . . . improper connection will not damage.

Easy "Once-A-Year" Battery Replacement . . . two ordinary penlight batteries serve about one year. Available anywhere . . . easily installed.

IGNITION TESTER

High Tension Voltage Test . . . with thumb switch in "Voltage" position, rev motor up until dial indicator stops rising, and read coil voltage output . . . you instantly spot "shorts" or breakdown. Disconnect individual spark plug wires to pinpoint wire trouble.

Milliamp Test . . . with switch in "Current" position, rev motor to maximum dial reading . . . lets you spot excessive secondary resistance in system . . . also check current of individual spark plug wires.

Checks Entire Ignition System . . . with engine running, checks coil, condenser, reversed polarity, secondary circuit connections, radio suppressors, resistance in ignition primary circuit or spark plug wire leakage.

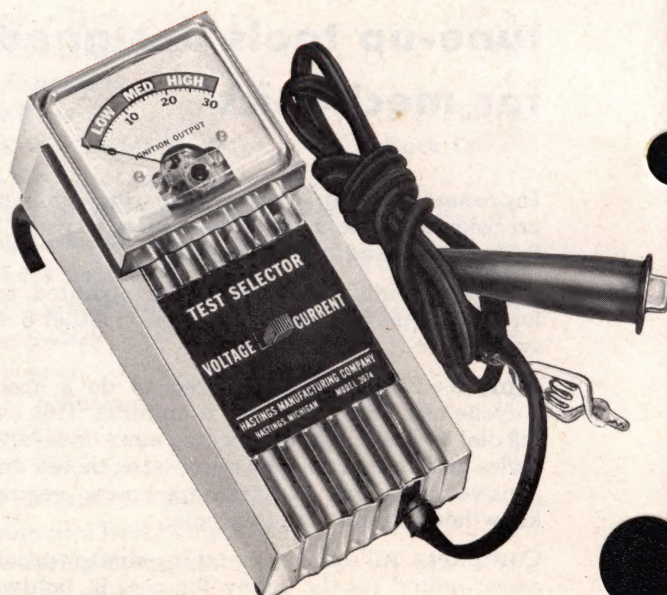
Simplified Testing Procedure . . . tests need not be made at any specified critical engine speeds . . . there are no specifications to observe.

Furnished Complete . . . everything needed for ignition output tests. Jumper wire grounds out generator during testing . . . "T" adapter for easy connection to distributor . . . straight adapter inserts in spark plug wire boots for quick connection . . . high voltage pliers for disconnecting spark plug wires.

Only Two Connections . . . one wire to ground, one to ignition system . . . no chance of incorrect hook-up . . . same connections for all makes and models of cars or trucks . . . takes only seconds.

Permanently Set At Factory . . . no "set" adjustments . . . is always ready for use, instantly, without dials or switches to check and set.

Can't Burn Out . . . internal protection eliminates chance of burn-out due to improper connection.



Part No. 3074

faster... easier... more accurately

● **Shatterproof Chrome Cases** . . . won't crack, chip, dent, or shatter. Impervious to oil, grease, gas, etc. Mechanisms shock-mounted for maximum protection.

● **Top Quality Cords and Clips** . . . reinforced cords are grease resistant. Positive sure grip clips

have color-keyed protective socks where needed. Rubber covered folding hooks permit hanging in any handy spot; wall, bench, car body or engine parts.

● **Available singly** at individual prices or at substantial savings in complete Port-a-Tune Kit.

DWELL METER

Single Control . . . press and turn cylinder selector with thumb to set for 6 or 8 cylinder . . . release to read degrees of cam angle.

Measures Point Resistance . . . green test zones on scale allow easy, sure, instant reading. Fast . . . checks on resistance in distributor primary circuit and point contact . . . ends guesswork.

Absolute "Must" for Newest Distributors . . . feeler gauges can't do the job on external adjustment type distributors . . . no other point dwell tester does it so easily, quickly, efficiently and accurately.

Allows Engine Full Power . . . remarkably low load characteristics . . . no stealing of engine power . . . permits motor to operate normally during test . . . insures accurate reading.

Automatic Battery Shut-Off . . . no failures or unnecessary burn-out . . . no "on-off" switch to forget and run down batteries.

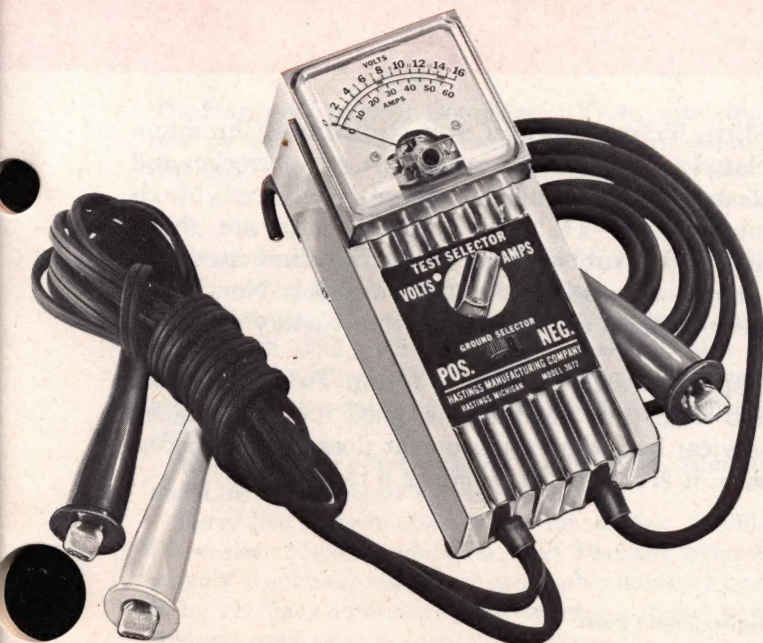
No Mechanism Burn-Out . . . protected meter can't be ruined by incorrect hook-up.

Easy Battery Replacement . . . uses ordinary penlight batteries . . . installed in seconds . . . available anywhere.



Part No. 3073

REGULATOR TESTER



Part No. 3072

Simple Connections . . . three leads, color keyed for instant identification . . . identical hook-up for all tests, all cars. Handy thumb switch selects correct ground polarity.

Generator Output Test . . . flip thumb control to upper position for quick, accurate reading on large ammeter scale. Jumper lead permits generator to operate free of regulator.

Voltage Regulator Setting . . . with thumb-control in middle position, resistance is automatically put between battery and regulator . . . simulates full battery charge . . . no need to install test battery . . . single voltage scale eliminates chance of meter damage . . . green zones mark "in tolerance" areas for both 6 and 12 volt systems.

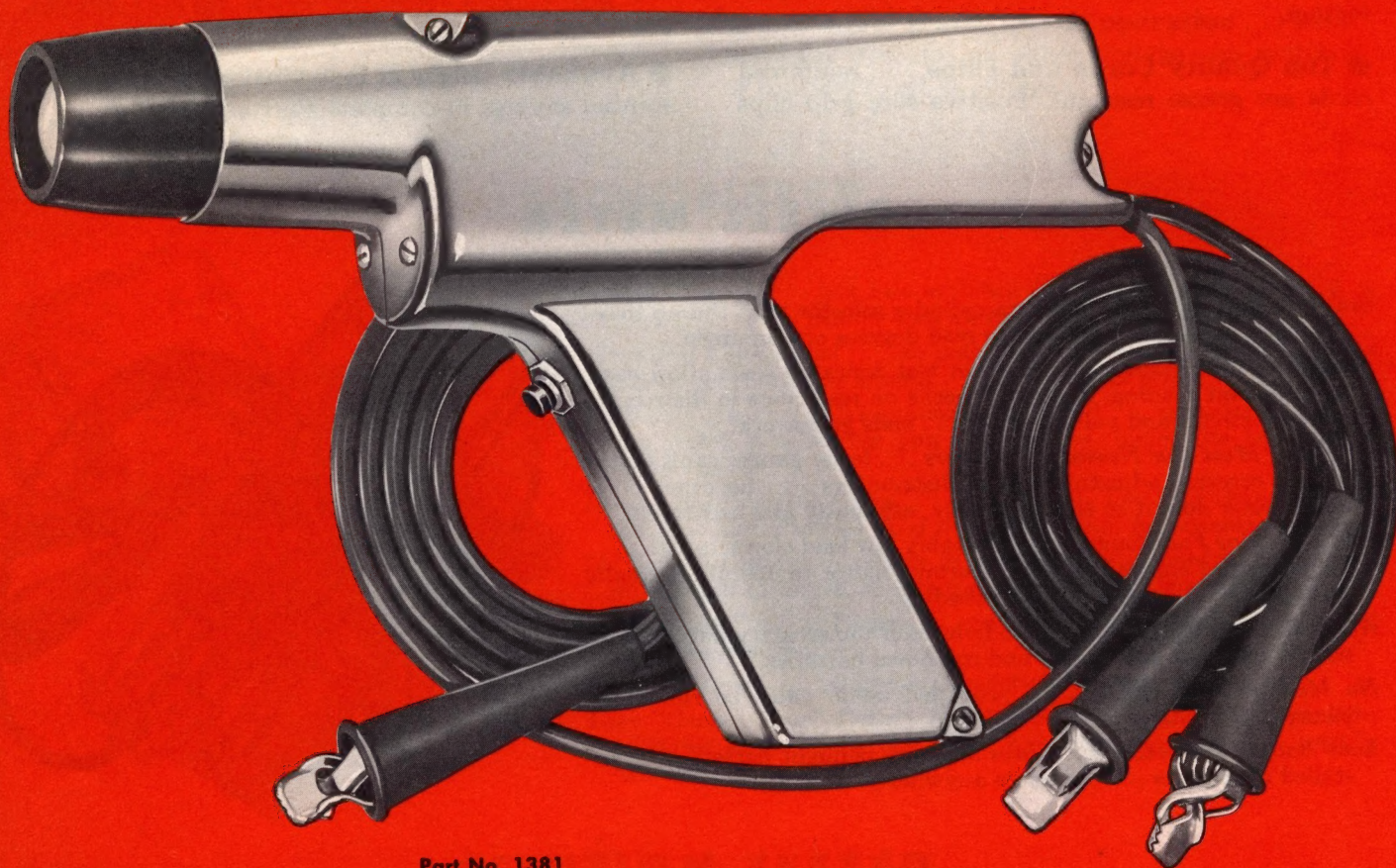
Current Regulator Setting . . . holding thumb control in lower position automatically puts load on battery, equivalent to turning on lights, etc. . . . holds voltage down for accurate check of current setting . . . no need to remove regulator cover . . . spring load releases control automatically to prevent excessive battery discharge.

Simple to Use . . . just three leads . . . just one set-up for all cars, all tests. Two thumb switches . . . one selects polarity, one selects desired test. No connections to change . . . no removing regulator cover . . . no test battery needed . . . lights, accessories, etc. need not be turned on.

Performs Auxiliary Tests . . . also serves as a regular volt-ammeter . . . checks cranking voltage, generator cutout, etc.

Complete Operating Guide . . . fully illustrated book explains complete operation with nine step-by-step pictures . . . clear, concise, detailed . . . furnished with every unit.

Super Beam Power Timing Light



Part No. 1381

Here is a timing light of highest quality. Built for rugged trouble-free service, it offers many new features.

Automatic Six and Twelve Volt Operation—Ready for instant use on either 6 or 12 volt systems without special hook-ups or adapters.

Brighter, sharper beam—New electronic circuit and focused beam provide brilliant piercing beam of light of extremely short duration. Permits fast accurate testing even in direct sunlight.

Sensitivity Adjustment—Easy adjustment to increase sensitivity for weak spark plugs, or to reduce sensitivity if necessary to eliminate double flashing.

Trigger Switch—Push button trigger switch flashes light only when needed; thus lengthens life of flash tube.

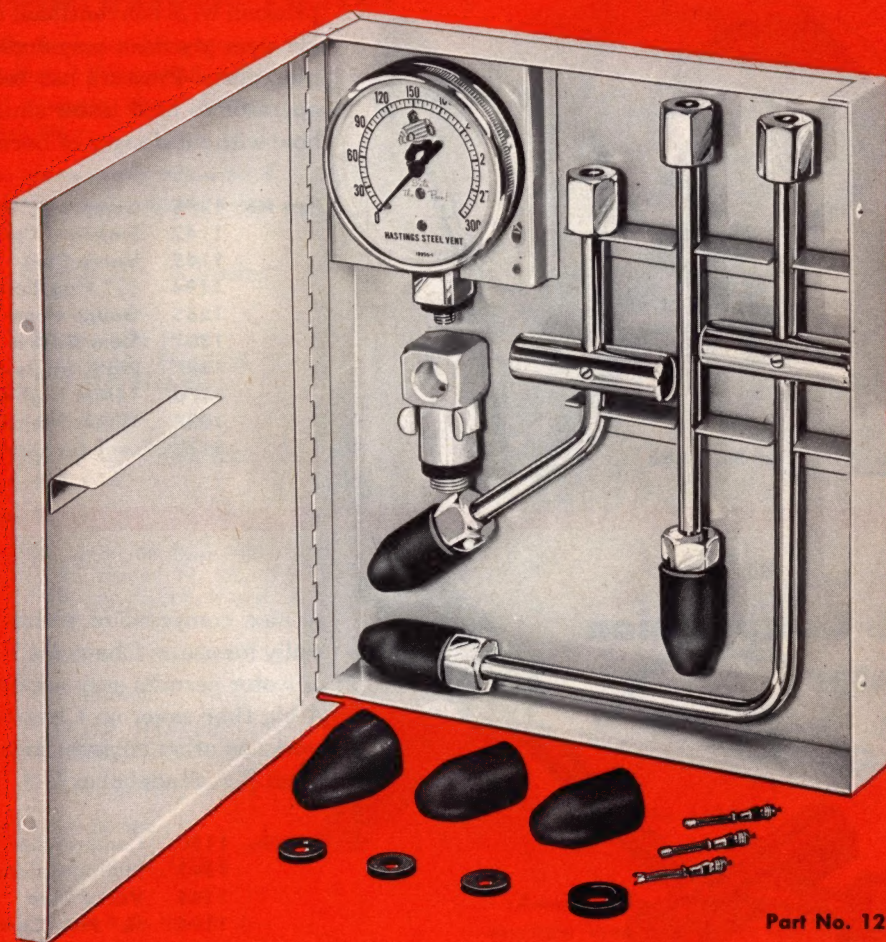
Slim, Trim, Rugged and Reliable—Chromium plated smooth surface resists dirt and corrosion and cleans easily. Case is flat and well balanced. Maximum width—1 $\frac{3}{4}$ ". All internal parts are shock mounted in rubber. Internal ground eliminates even the remote possibility of electric shock. Non-Polarized—connect either line to either battery post.

Replaceable Vibrator & Flash Tube—Vibrator and flash tube are both designed for long, rugged service; but when replacement does become necessary, it is as easy as replacing a radio tube.

Replacement Parts:

Part No. 1380	Replacement Condenser
1388	Replacement Flash Tube
1404	Replacement Vibrator

Universal Compression Tester Kit



Part No. 1298

The Hastings Universal Compression Tester provides, in one package, a means of measuring compression in practically all cars, trucks and tractors, old and new.

It is the most complete compression testing kit ever built. Kit includes:

Gauge head reads to 300 lbs. Permits accurate testing of late model high compression engines.

Long straight stem for testing engines with extremely deep spark plug wells, such as Chrysler, Dodge and DeSoto V-8 engines; also wherever a long reach is necessary, or for general testing where spark plug holes are accessible.

Ninety degree offset stem for testing Ford, Mercury, and Lincoln overhead valve V-8 engines.

Forty-five degree offset stem for testing Cadillac, Chevrolet, Nash, Studebaker, and Packard overhead valve V-8 engines; also where spark plug holes are boxed in by auxiliary equipment, such as power brake, power steering mechanisms, generators, etc.

Right angle adapter for Ford-Ferguson tractors and other isolated cases where spark plug holes are inaccessible to any stem.

High compression cone adapters for 14MM and 18MM plug holes permit accurate testing of extremely high compression engines that are hard to hold with a standard cone.

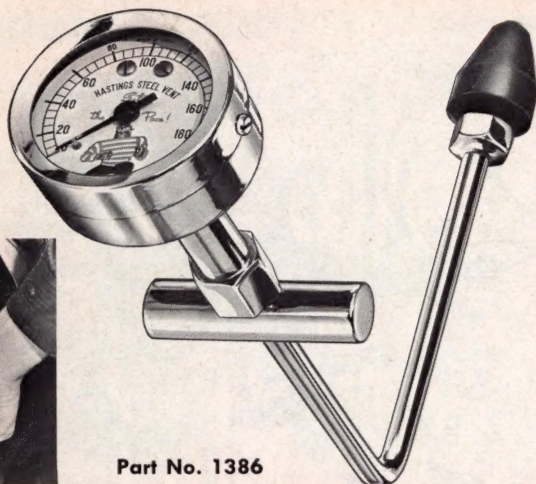
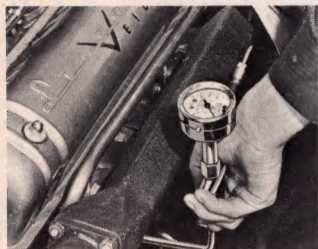
Kit includes two standard cones, one cone for $\frac{1}{8}$ " plug opening, one High Compression cone, two valves, three stem gaskets, one RA gasket.

Part No. 1298	Universal Compression Tester Kit
1141	Right Angle Adapter
1142	Standard Cone
1144	Lens for Gauge Head
1145	Valve Core
1194	$\frac{1}{8}$ " Plug Cone
1257	Straight Stem
1259	45° Angle Stem
1299	Right Angle Stem
1301	Stem Gaskets
1302	Gauge Head
3170	14MM High Compression Cone
1037	18MM High Compression Cone

Hastings Compression Testers

F-L Model Compression Tester

Special design for Ford, Mercury and Lincoln overhead valve engines.

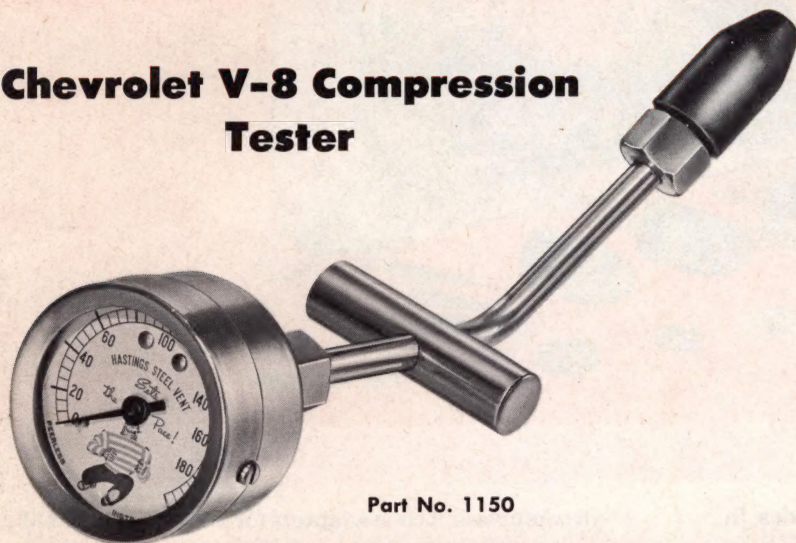


Part No. 1386

Position of spark plug holes below manifold makes it extremely difficult to check compression with conventional testers. Right angle stem provides easy accessibility to spark plug ports. Pressure bar below gauge allows operator to hold tester snugly in spark plug hole without danger of burns from manifold.

Part No. 1386	Compression Tester
1142	Standard Cone
1145	Valve Core
1194	7/8" Plug Cone
1255	Gauge Head
1301	Stem Gasket
1387	Right Angle Stem
3170	14MM High Compression Cone
1037	18MM High Compression Cone
3172	Lens for Gauge Head

Chevrolet V-8 Compression Tester

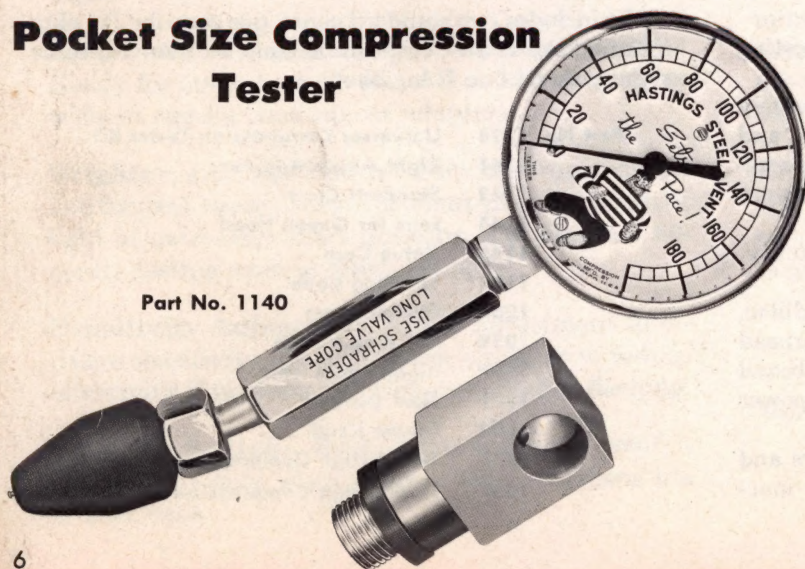


Part No. 1150

A new compression tester developed especially for use on Chevrolet V-8 engines. Angle of tester permits easy access to all cylinders. A big time saver on Chevrolet engines. Also works on other engines, such as Packard V-8, Nash V-8, Studebaker V-8.

Part No. 1150	Compression Tester
1142	Standard Cone
1145	Valve Core
1194	7/8" Plug Cone
1255	Gauge Head
1301	Stem Gasket
1407	Angle Stem
3170	14MM High Compression Cone
1037	18MM High Compression Cone
3172	Lens for Gauge Head

Pocket Size Compression Tester



Part No. 1140

A high quality, accurate tester which provides positive means of demonstrating to the car owner the condition of his engine. Angle construction of tip permits easy reading on back cylinders. Right angle adapter available.

Part No. 1140	Compression Tester
1141	Right Angle Adapter
1142	Standard Cone
1143	Stem
1144	Lens for Gauge Head
1145	Valve Core
1194	7/8" Plug Cone
1301	Stem Gasket
1302	Gauge Head
3170	14MM High Compression Cone
1037	18MM High Compression Cone

Hastings Compression Testers

Diesel Compression Tester

Developed especially for testing high compression diesel engines. Furnished with heavy gauge steel storage case. Gauge registers up to 1,000 lbs.

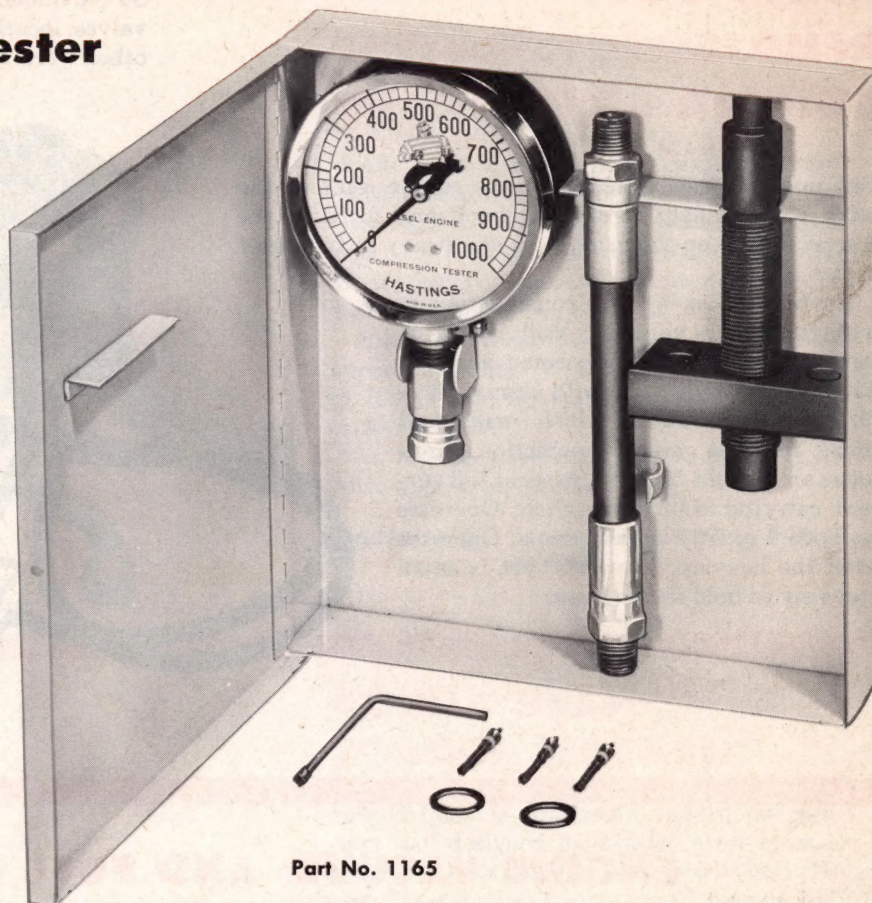
Available with your choice of the following 3 adapters. Be sure to specify adapter desired when ordering.

Adapter No. 3187 covers the following applications:

Allis-Chalmers (Buda)	HD-6, HD-16A, HD-16AC, HD-11B, HD-116, HD-21
J. I. Case	400 & 500
Massey-Harris- Ferguson	33D, 44D, 55D, 333, 444, 555
Minneapolis-Moline G, U	
Oliver	Super 55, 66, Super 66, 77, Super 77, 88, Super 88, 99, Super 99, OC-6
Buda	All smaller engines
Cockshutt	All engines
Continental	GD-157, HD-260, JD-382, TD-427
Gray Marine	D-157, D-260, D-572
P&H Harnischfeger C-18 Series	
Hercules	DIX, DJX, DWX, DRX

Plus any engine using American Bosch Injector AKB-XS or R series of Injector where X indicates length in MM from 35 to 100; and which Injector has a 21MM shank.

Adapter No. 3188 covers all G.M. 71 series engines.



Part No. 1165

Adapter No. 3189 for all International Harvester engines used in power units, farm tractors and construction equipment.

Part No. 1035	Valve Core
1073	Gauge Head
3186	Release Valve

Special design for checking compression on out-board, air cooled, and other small bore engines.

Threads into any 14 MM spark plug hole, leaving both hands free to pull rope. Side release valve provided. In case a retest is necessary, it may be done without unscrewing tester.

Adapter available for use in 18 MM spark plug holes.

Part No. 3173	Gauge head
3172	Lens for Gauge Head
3175	18MM Adapter
1145	Valve Core

Small Engine Compression Tester



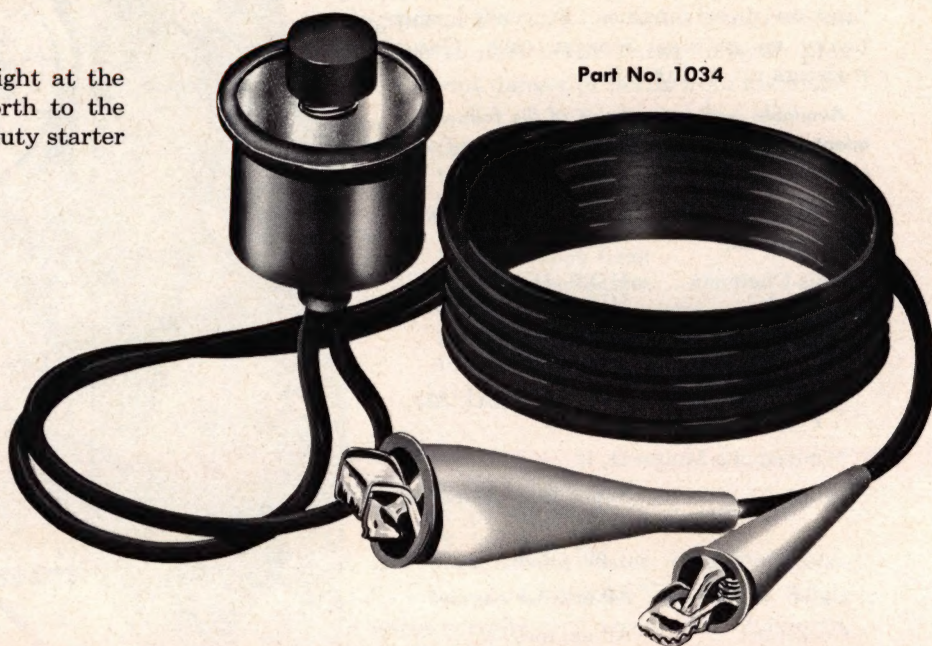
Part No. 1168

HEAVY DUTY REMOTE STARTER SWITCH

One man can easily turn over the engine right at the work without help or shifting back and forth to the starter button on the dash, with this heavy duty starter switch.

Extremely heavy duty construction to withstand high voltages. Will not burn out—even if directly connected across a battery. Special design with heavy phosphor bronze contacts which make and break through carbon connection eliminates arcing and burning. Assures full current carrying ability of switch. Operates on both 6 and 12 volt systems. Operates even the heaviest solenoids, yet is small and easy to hold in the hand.

Quickly hooked-up—simply clamp one lead to the starter solenoid and the other to a hot wire terminal. So convenient when making compression tests, checking valves, locating automatic transmission drain plugs, and other work requiring cranking the engine.



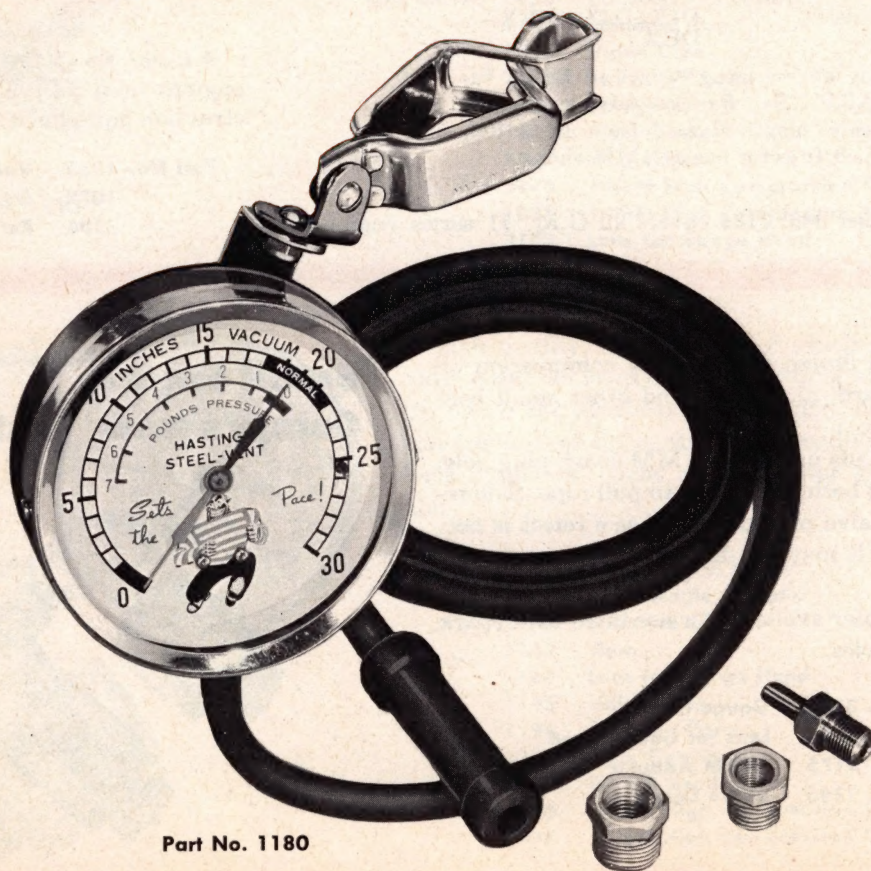
Part No. 1034

ENGINE VACUUM AND FUEL PUMP TESTER

Here's the handiest trouble shooting instrument a mechanic can have. Hastings' Vacuum and Fuel Pump Tester quickly and accurately diagnoses a host of engine troubles including sticky valves, ignition timing, valve timing, carburetor adjustment, manifold leaks, faulty fuel pump, clogged exhaust system, defective gaskets. The time you save in trouble shooting repays its cost on the first few jobs.

Flexible rubber connector permits quick attachment to vacuum system and assures positive seal for accurate readings. Sturdy polished chrome gauge will take normal shop abuse and maintain accuracy. Large clearly marked dial is easy to read and universal clamp adjusts dial to any reading angle.

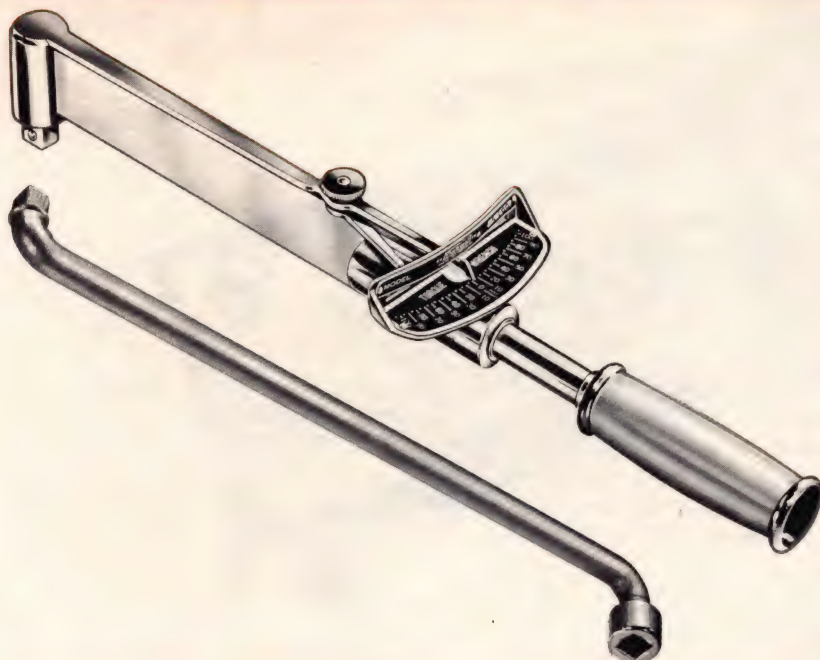
Three adapter fittings supplied to permit use on all vacuum systems. Complete instructions included.



Part No. 1180

- | | |
|---------------|-------------------|
| Part No. 1056 | Set of 3 Adapters |
| 1183 | Replacement Lens |
| 1185 | Hose Connector |
| 1391 | Replacement Hose |

Hastings Torque Wrenches



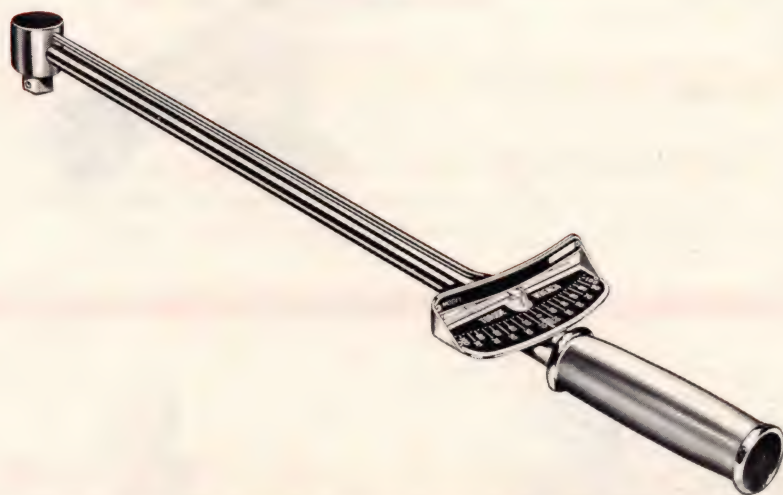
SENSORY TORQUE WRENCH & EXTENSION

Heavy duty, lightweight precision tool with lifetime accuracy. Sensory signaling mechanism signals three ways: (1) sounds a distinct click, (2) imparts a strong definite impulse the instant pre-set torque is reached, (3) indicates torque on legible dial.

Alloy steel extension included doubles wrench capacity. Wrench alone measures 0 to 100 ft. lbs. Extension increases capacity to 200 ft. lbs.

$\frac{1}{2}$ " square drive with friction ball lock on both wrench and extension.

Part No. 1119 Sensory torque wrench and extension



ROUND BEAM TORQUE WRENCH

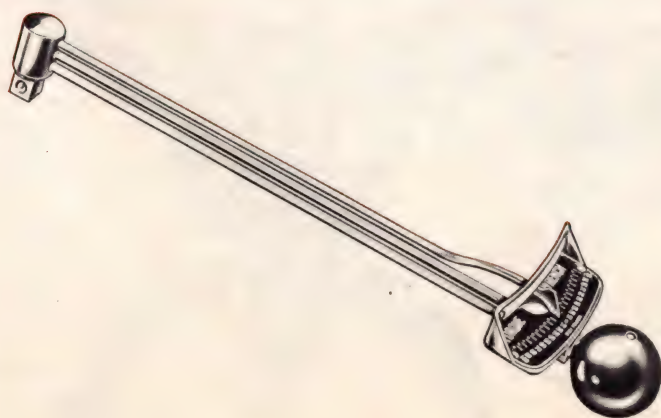
Round Beam is a ruggedly constructed compact tool designed for service work in close quarters. Lifetime accuracy guaranteed. No complicated cams, multiplying devices or frail mechanism to afford the possibility of error. Formed floating handle fixes the point of load regardless of hand position.

Available in two sizes:

Part No. 1095 0 to 100 ft. lbs. capacity,
 $\frac{1}{2}$ " square drive

1117 0 to 150 ft. lbs. capacity,
 $\frac{1}{2}$ " square drive

1031 Extension to Double Capacity



INCH POUND TORQUE WRENCH

Designed especially for service work on automatic transmissions and small bore engines.

Floating ball handle and specially finished alloy steel measuring bar assure lifetime accuracy of this precision tool.

Part No. 1008 0 to 200 inch pound capacity,
 $\frac{3}{8}$ " square drive

COMFLOAT CREEPER



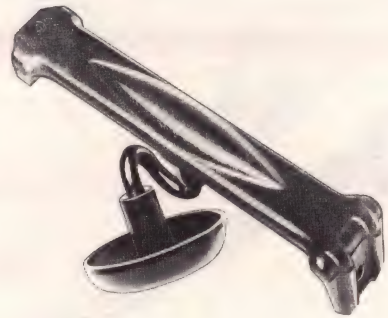
Part No. 1090

A Comfloat offers the very finest in Creeper comfort. Low-slung, approximately $2\frac{1}{2}$ " above floor level, yet glides smoothly in any direction, even on wavy or pebbly floors. Walks over light cords or other obstacles without hesitation, on 3" heavy duty Ralco Glide-Ride rollers.

Sturdy construction withstands the heaviest loads and sharpest impacts. Made of carefully selected kiln-dried hardwood throughout. Comfortable plastic coated headrest is not harmed by grease, gas, alcohol or acids. Metal corners provide maximum strength and are rounded to prevent injuries.

Packed two to a shipping carton. Shipping Weight 34 lbs.

Part No. 1091 Glide-Ride
Rollers



Special heavy duty design with 3" wheels equivalent to a 6" straight wheel caster. Individually packed.

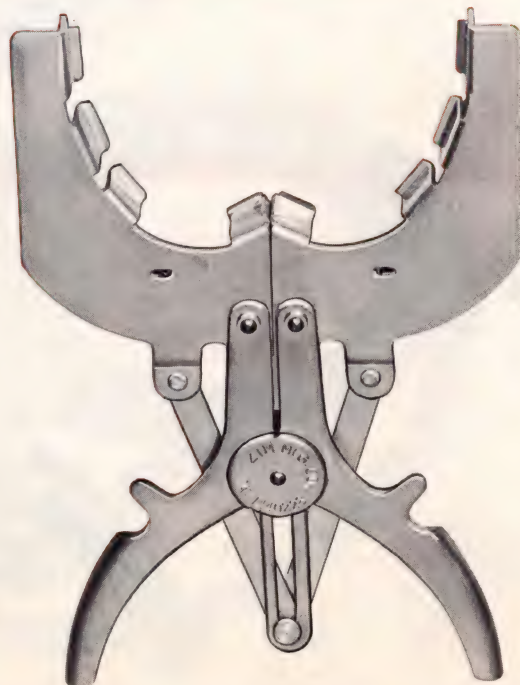
PISTON RING EXPANDERS

Speeds ring removal and installation—does it easily, without danger of breakage, distortion or other damage to rings, no matter how delicate they may be. It saves time—saves rings.

Made entirely of steel, requires no adjustments and is positive in operation.

Available in three sizes:

- | | |
|---------------|---|
| Part No. 1258 | For Rings 2" to 3" dia. |
| 1941 | For Rings $2\frac{3}{4}$ " to $4\frac{1}{4}$ " dia. |
| 1936 | For Rings $4\frac{1}{2}$ " to 7" dia. |



UNI-BLADE GROOVE CLEANER



Cut cleaning time in half with Uni-Blade, the only groove cleaner that cleans all $\frac{5}{64}$ " and wider ring grooves without adjustment. Most pistons have at least two groove widths. With Uni-Blade you lose no time selecting and adjusting blades. Same blades, same action thoroughly cleans all grooves. Unique blade design cleans without damaging or marring ring lands or catching in slots or holes in bottom of grooves. Uni-Blade walks over pin on Hudson pin pistons.

Extremely fast to use. Just slip it over the piston and insert blades in groove. Rotate blades 180° several times and you remove all carbon — even the tiny pockets in the corners.

Operates on all pistons $2\frac{3}{4}$ " to $4\frac{1}{4}$ " diameter.

Part No. 1933 Uni-Blade Groove Cleaner
1934 Replacement Cleaning Blade



FOREIGN CAR UNI-BLADE

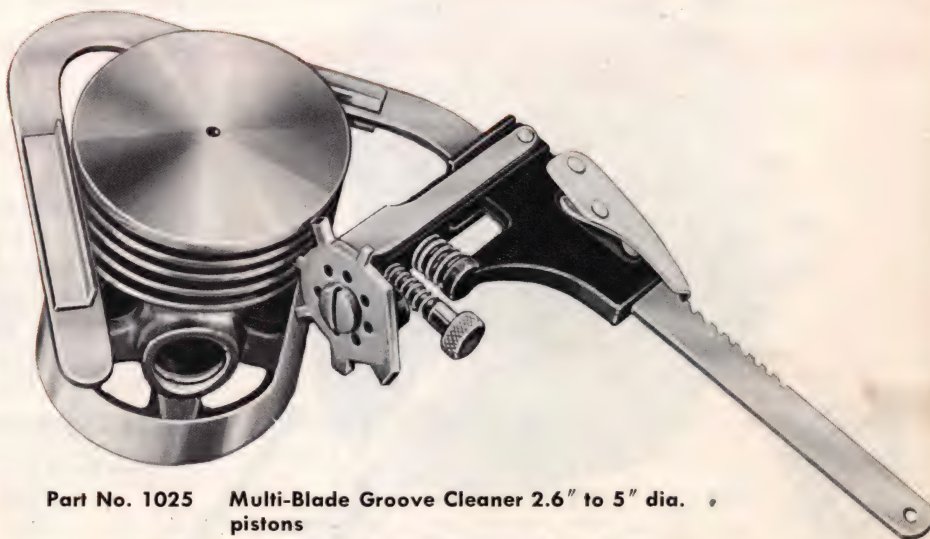
Similar in design and appearance to Uni-Blade but equipped with narrow blades for cleaning metric width grooves. Cleans $\frac{1}{16}$ " and wider grooves found in Foreign cars. Operates on all pistons 2" to 4" diameter.

Part No. 1423 Foreign Car Uni-Blade Groove Cleaner
1457 Replacement Cleaning Blade

MULTI-BLADE GROOVE CLEANER

Multi-Blade offers a one-piece blade arrangement for the following groove widths: $\frac{5}{64}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ ", $\frac{5}{32}$ " and $\frac{3}{16}$ ".

Narrow blades remove carbon from the grooves and wide blade trims ring land faces. Depth guard control prevents blades from digging or catching in drilled holes in oil ring grooves. Available in three sizes:



Part No. 1025 Multi-Blade Groove Cleaner 2.6" to 5" dia. pistons
1026 Multi-Blade Groove Cleaner 4" to 6" dia. pistons
1275 Multi-Blade Groove Cleaner 2" to 3" dia. pistons
1009 Replacement Groove Cleaner Blade and Screw (for 1025, 1026 or 1275 Groove Cleaners)
3176 Replacement Blade for $\frac{1}{4}$ " grooves



GLAZE BREAKER CYLINDER HONE

A new and exceptionally fine operating deglazing hone. Sturdily built, this new hone breaks the glaze in any cylinder, quickly and easily. Flexible drive shaft permits easy access to all cylinders. Smooth cone expansion quickly adjusts hone to cylinder walls with uniform operating pressure. Adjustable spring tension lets you select the pressure you need.

Fits any standard $\frac{1}{4}$ " drill. Works in cylinders 3"-6" with no extensions required.

Supplied with extra large 180 grit stones recommended by Hastings engineers for quick, positive seating of both steel and chrome rings. Replacement stones and wiper pads available from Hastings Distributors.

Part No. 1053	Glaze Breaker Hone	Part No. 1417	Body
1374	Set of Stones and Pads	1418	Holder Pin
1413	Flexible Drive Shaft	1419	Holder Pin Keeper
1414	Knurled Adjusting Nut	1420	Holder Pin Spring
1415	Compression Spring	1421	Arm
1416	Expanding Cone		



FLEX-DRIVE HONE

Rugged construction of Flex-Drive insures long, satisfactory service. Flexible drive shaft permits quick entry into back cylinders, operates from any angle. Cone expansion adjusts hone to any cylinder 3-4" diameter. 4-5" Extension included with hone. Operates with $\frac{1}{4}$ " drill.

Submerge hone in light oil, remove and insert in cylinder. Expand stones and pads with cone expansion head. Eliminates compressing spring loaded stones and pads by hand. A few strokes in each cylinder quickly finishes the job.

Part No. 1365	Flex-drive Hone for 3-5" dia. cylinders
1371	Replacement Drive Shaft
1374	Replacement Set of Stones and Pads
1375	Replacement Set of 4 Springs
1383	Extension for 4-5" cylinders
1384	Extension for 5-6" cylinders
1385	Extension for 6-7" cylinders



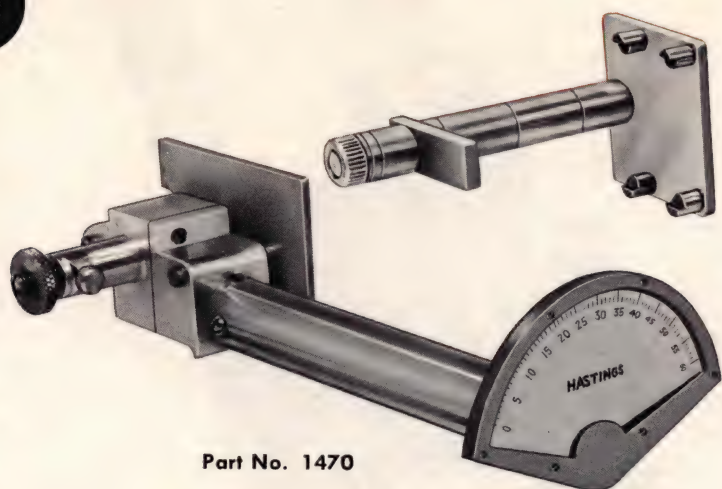
CYLINDER WALL DE-GLAZER

For speedy, economical De-Glazing—De-Glazer consists of eight special abrasive sheets riveted at the center and stiffened by a spring steel backbone. As the abrasive edges wear, loosen lock screw and turn to next edge. De-glazing costs only a few pennies and pays off many times over in successful ring jobs. A complete block can be de-glazed in less than 5 minutes. Use with either $\frac{1}{2}$ " or $\frac{1}{4}$ " drill.

Available in four sizes for bores 2" to 7" dia.

Part No. 1113	De-Glazer 2" to 3" bores
1240	Replacement Element for No. 1113
1093	De-Glazer 2 $\frac{3}{4}$ " to 3 $\frac{7}{8}$ " bores
1241	Replacement Element for No. 1093
1097	De-Glazer 3 $\frac{3}{4}$ " to 5 $\frac{3}{4}$ " bores
1242	Replacement Element for No. 1097
1243	De-Glazer 5" to 7" bores
1245	Replacement Element for No. 1243

NEW HASTINGS CYLINDER GAUGE



Part No. 1470

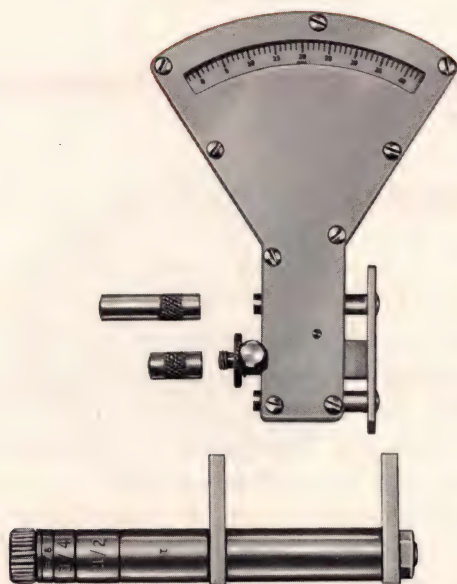
Sells rebore jobs.

Insures your workmanship.

Hastings proudly announces a cylinder gauge that will check taper and out of roundness the full length of the cylinder. Because the supporting shoe is below the gauge indicating points, taper can be checked from bottom to extreme top of cylinder.

Simple to use, easy to set, complete with setting anvil. Easy reading dial clearly indicates exact taper. Range 3" to 5" with graduations in .001.

SMALL BORE CYLINDER GAUGE



Part No. 1424 for $1\frac{3}{4}$ " to $3\frac{1}{4}$ " bores

A precision tool specially designed for checking small engines, such as outboards, lawn mowers, chain saws and an ever growing variety of applications. Easy reading dial is always outside the cylinder for convenient checking.

Pre-set gauge to give a zero reading at original cylinder diameter. Insert gauge in cylinder and it will indicate in thousandth of an inch the exact amount of wear at any given point. Gauge may be rotated or



slid up and down in cylinder and accuracy is maintained by spring pressed guide plate.

A gauge setter, consisting of two upright plates and a set of six accurately ground spacers, is furnished with each gauge. Spacer combinations can be selected to bring the gap exactly to the original diameter of any cylinder within the range from $1\frac{3}{4}$ " — $3\frac{1}{4}$ ".

Gauge, setter and two extension parts are packed in wooden case together with complete instructions.

SLIK-KUT RIDGE REAMER

Here's a new Ridge Reamer that handles the wide range of bore sizes found in modern engines. Featuring the Hastings automatic "Feed-Up" design, the Slik-Kut works in any engine, slanted, conventional or short stroke, over a new wide range of 3" to 5".

It is made of highest quality materials. Tungsten carbide blade assures long life and ease of operation. Every mechanic will need one to work on the larger bores now in use.

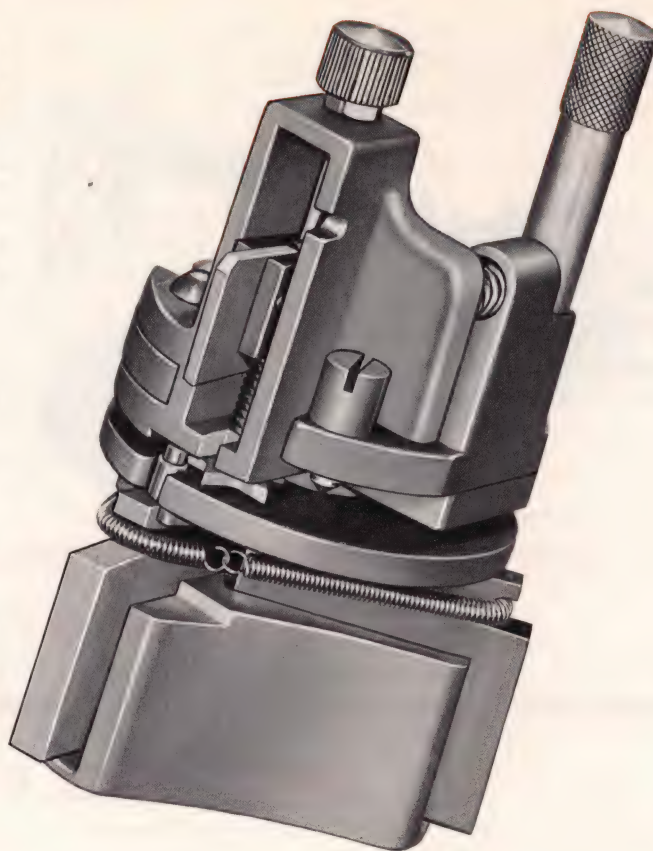
Just insert reamer in bore below ridge and rotate cutter-head until blade emerges from top of bore. That's all there is to do — no resetting necessary even for wide ridges. Star wheel feed advances blade smoothly and firmly under spring tension — never allows it to slip, gouge or chatter.

Available in two sizes:

- Part No. 1050 Slik-Kut Ridge Reamer 3"-5" dia.
3036 Slik-Kut Ridge Reamer 4"-6" dia.

Replacement Parts

- Part No. 3034 Carbon Steel Blade for 1050 or 3036
3035 Tungsten Carbide Blade for 1050 or 3036
3037 Extension Head and Blade for 3036 for 6"-7" dia.
1029 Holding Blade with tip for 1050
1030 Two Holding Blades without tips for 1050
1052 Set of 3 Holding Blades for 1050
1061 Center Bolt $2\frac{1}{2}$ " x $\frac{3}{8}$ ", $1\frac{1}{4}$ " thrds., for 1050
3046 Center Bolt $2\frac{1}{2}$ " x $\frac{5}{16}$ ", $1\frac{1}{4}$ " thrds., for 1050
3059 Center Bolt 4" x $\frac{5}{16}$ ", $1\frac{3}{8}$ " thrds., for 3036
3032 Star Wheel Assembly
3053 Cutter Head Assembly for 1050 or 3031



SAF-T-BLADE

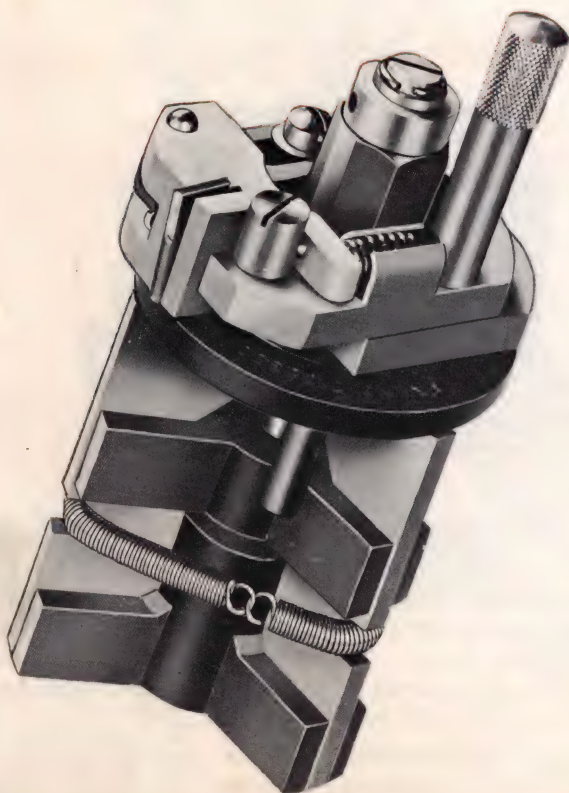
A long-time favorite with mechanics everywhere. Sturdy, dependable, accurate. Cutting blade follows cylinder wall under spring tension regardless of the shape of the bore. Famous Saf-T-Blade prevents over-cutting metal after the ridge is removed.

Also available in special small size for 2"-3" Bores.

- Part No. 1057 Saf-T-Blade Reamer 2.6"-4" dia.
1261 Baby Saf-T-Blade Reamer 2"-3" dia.

Replacement Parts

- Part No. 1058 Extension Head and Blade for 1057 for 4"-5" dia.
1059 Carbon Steel Saf-T-Blade
1060 Tungsten Carbide Saf-T-Blade
1067 Individual Holding Blade for 1057
1069 Cutter Head Assembly for 1057
1070 Bottom Slide for 1057
1071 Blade Screw for 1057
3177 Center Bolt $2\frac{3}{4}$ " x $\frac{5}{16}$ ", threaded 1" for 1261
3178 Center Bolt $2\frac{3}{4}$ " x $\frac{5}{16}$ ", threaded 1" for 1057



HASTINGS RIDGE LATHE

Range 3"-5".

A new type ridge removing tool designed to handle all modern engines 3" to 5" bores, including short stroke types.

Lathe action removes ridge in one easy operation.

Cutter moves up the bore in one easy cut, no interruptions, chatter or jump.

Lathe is centered and supported entirely within the cylinder. Works perfectly in new canted block engines because it has no relative requirement between cylinder and top of block.

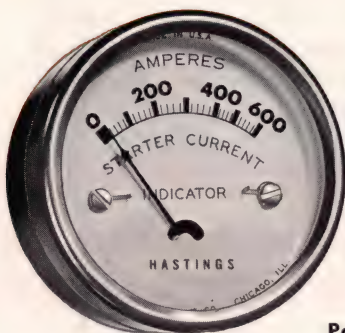
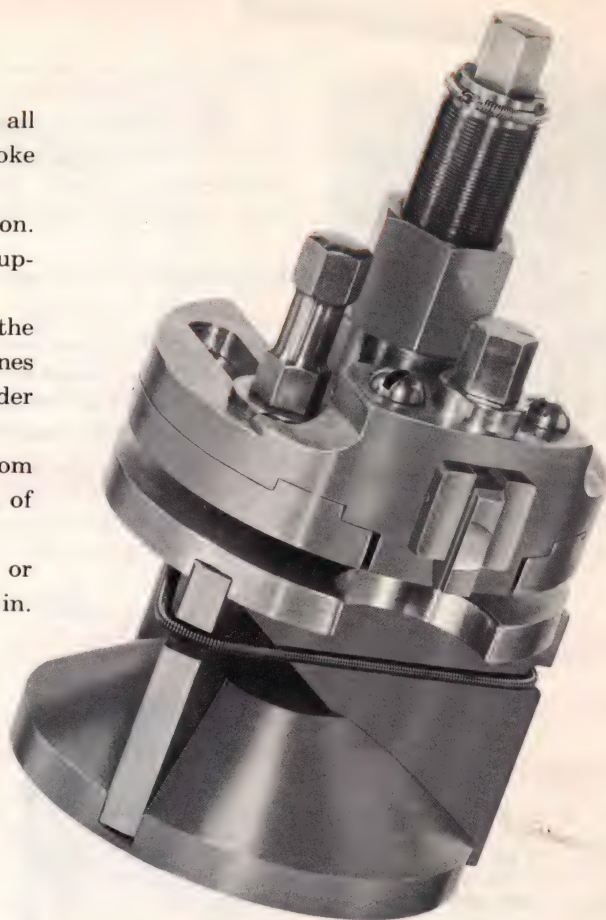
Three position setting of cutter permits transfer from one cylinder to next without changing adjustment of cutter carriers.

Follows out-of-round cylinder contours, pockets or other imperfections. Will not overcut, chatter or dig in.

Part No. 3179 Ridge Lathe

Replacement Parts

Part No. 3180	Tungsten Carbide Cutting Blade
1442	Cutter Head Locking Screw & Washer
1443	Bottom Slide
1444	Cutter Head Assembly W/Blade
1445	Top Plate
1446	Feed Screw Retaining Spring
1458	Expansion & Feed Screw
1459	Holding Blade, 3 required
1460	Expansion Spring



Part No. 1440

STARTER CURRENT INDICATOR

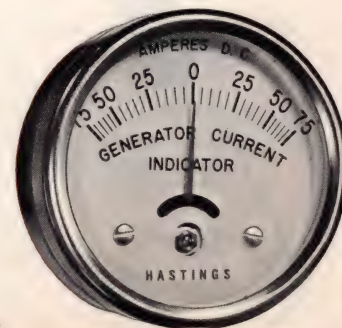
For measuring starter motor current and an aid in detecting such troubles as grounded fields and armatures, bad bearings, etc. Used in conjunction with a voltmeter, a complete diagnosis of the battery starter circuit can be made. Dial is 2 3/8" in diameter. Range Zero to 600 Amperes with a division mark every 25 amperes. Same instrument with its extremely long scale is suitable for all sizes of starters from small cars to large trucks.

Easy to use. Just hold the meter over the starter cable, over insulation and all, and take a reading. It is not necessary to dismantle any part of the circuit or disconnect any cables.

GENERATOR CURRENT INDICATOR

Measures current flowing from generator to battery or vice-versa under all conditions. Also useful in testing current limitators and cut-out relays for opening and closing of points. Used in conjunction with a voltmeter, a simple and complete diagnosis of all parts of the generator-regulator circuit can be made. Range 75-0-75 amperes with a division every 5 amperes. Dial 2 3/8" in diameter.

Easy to use — Do not disconnect any wires just hold over the generator cable, right over the insulation, for all tests. Universal use on all cars and trucks and tractors.



Part No. 1439

CONEMASTER RING COMPRESSORS



Conemaster wrap-around type compressors are speedy tools for installing pistons in most makes and models of engines. Compressor band takes all rings at once, including skirt rings. Self-locking heavy duty ratchet pawl prevents premature re-

lease. Automatic friction brake. Double tension band of highest grade spring steel eliminates any bottom flare.

Works on new canted block engines, too. Simply invert compressor on piston and follow usual procedure.

Available in four sizes for pistons 2" to 10" diameter

Part No. 1129	Conemaster Midget for pistons 2¼" to 3" diameter
1134	Conemaster Compressor for Passenger Cars 2½" to 5" diameter
1135	Conemaster Compressor for Truck and Tractor Engines 3½" to 7" diameter
3167	Conemaster Compressor for 7" to 10" Pistons

CONEMASTER WIDE BAND COMPRESSOR

Part No. 1138

for heavy duty skirt ring pistons 3½" to 7" diameter

Compressor band 6½" wide, four spring steel tension bands, double, self-locking ratchet. Automatic friction brake.



SLIPPER SKIRT RING COMPRESSOR

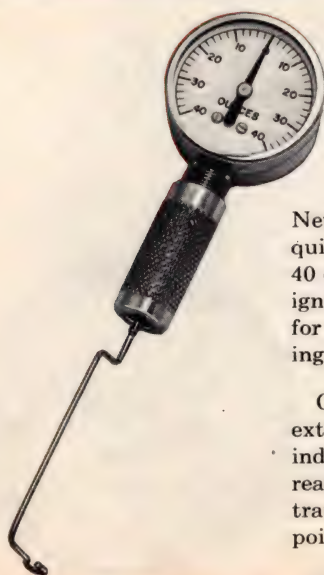


Part No. 1132

Special design with narrow compressor band for slipper skirt pistons. Compresses rings firmly without funneling at pin sides of piston. Permits smooth, speedy installation. For pistons 2⅞" to 4⅜" diameter.

SPRING TENSION TESTER

Part No. 1077



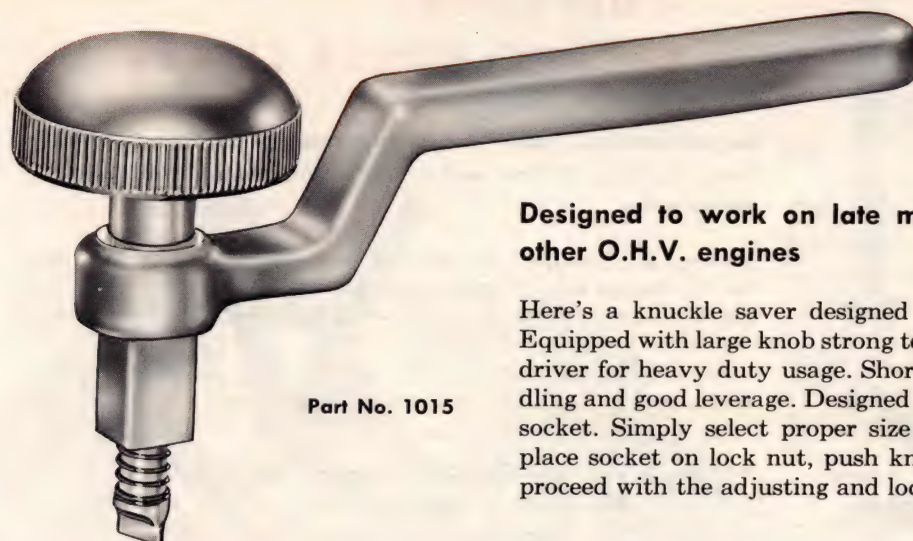
New dial type Spring Tension Tester makes quick work of checking spring tension up to 40 ounces. Designed primarily for measuring ignition point spring tension but is also handy for testing generator brushes, power steering wheels and other small tension springs.

Graduated dial in polished chrome case is extremely accurate and easy to read. Second indicator hand remains fixed at maximum reading until reset so operator can concentrate on getting accurate opening of the points and read tester later.

Some ignition points must be pulled open for test, others pushed open. Tester operates with either push or pull action to measure accurately in all situations. Quickly adjusts to zero by simply rotating barrel.

If spring tension of ignition points is weak, the points take too long to close and prevent engine reaching top performance. If tension is too strong, the points bounce, resulting in weak spark and double firing which also limits top speed. Be sure the job is right, check the springs with Hastings Spring Tension Tester.

"OVERHEAD VALVE" TAPPET ADJUSTER

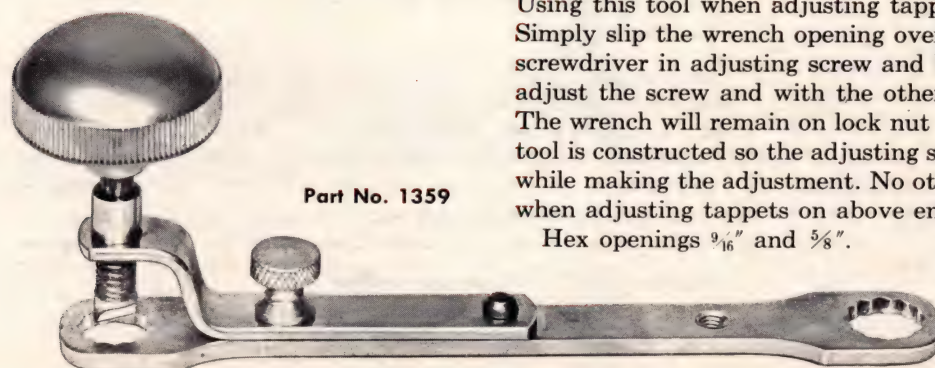


Part No. 1015

Designed to work on late model Fords, Mercury, Lincoln and other O.H.V. engines

Here's a knuckle saver designed for use on all overhead valve engines. Equipped with large knob strong tension spring and high carbon steel screwdriver for heavy duty usage. Short stocky handle (6¼") assures easy handling and good leverage. Designed to use with any fourway ½" square drive socket. Simply select proper size socket, insert adjuster in drive socket, place socket on lock nut, push knob down to engage adjusting screw and proceed with the adjusting and locking operation.

"HEAVY DUTY" TAPPET ADJUSTER



Part No. 1359

For Chevrolet, Buick, Nash and Ford 6 overhead valve engines

Using this tool when adjusting tappets is just like having an extra hand. Simply slip the wrench opening over the adjusting screw lock nut, engage screwdriver in adjusting screw and back off lock nut. With one hand you adjust the screw and with the other check adjustment with feeler gauge. The wrench will remain on lock nut despite movement of rocker arm. This tool is constructed so the adjusting screw is never hidden from view of user while making the adjustment. No other tool except feeler gauge is required when adjusting tappets on above engines.

Hex openings 9/16" and 5/8".

BRAKE CYLINDER HONE

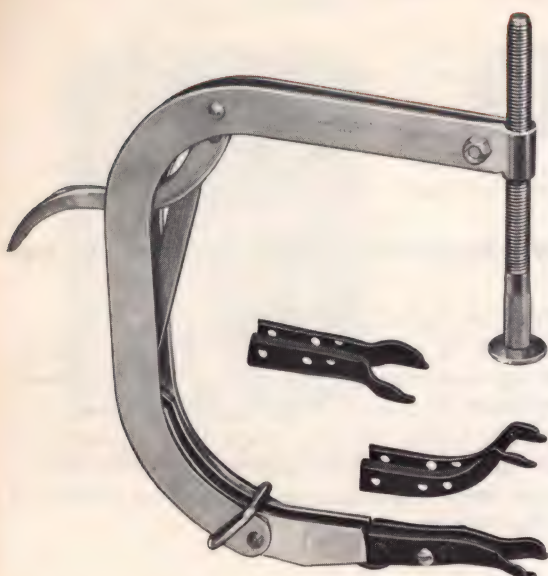


Full range hone. Just one tool for all cylinders ¾" to 2" diameter. No adapters or changes to make. One easy adjustment controls pressure in any size cylinder.

Flexible drive shaft makes it easy to hone cylinders right on the car.

Hones full length of cylinder—right to the end on step-cut and blind-end cylinders. Just one size and type of stone for all work.

- Part No. 3183 Brake Cylinder Hone
- 3184 Replacement hone stones
- 1049 Set of 3 Arms and Springs
- 1074 Flexible Drive Shaft
- 1081 Shaft Spring



UNIVERSAL C-TYPE VALVE LIFTER

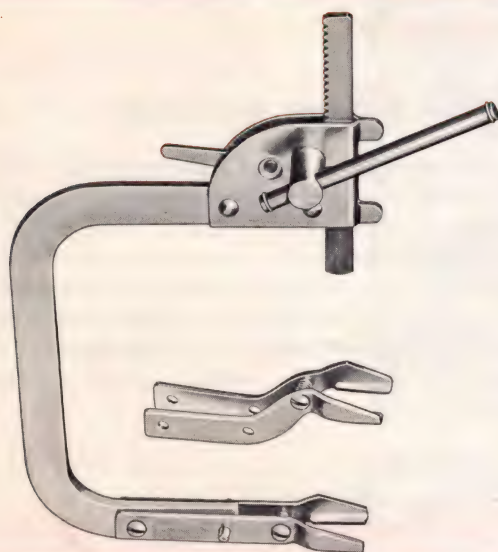
For automotive, heavy duty and industrial engines—L-Head, Valve in head, V-type and in line engines with straight valve stems.

A versatile time saver. Works on engines which allow working room for this rugged tool. Powerful enough to raise the stiffest spring with one-hand ease. Spring always moves straight up — top and bottom parallel — no danger of slipping.

Simple, rugged design — will stand years of hard use. Designed as the perfect team-mate of Hastings Split Lock Replacer.

Equipped with straight jaws, high off-set jaws, and large jaws.

Part No. 3182	Universal C-Type Valve Lifter
1133	Small Straight Jaws, pair
1171	High Off-set Jaws, pair
1191	Large Straight Jaws, pair



C-TYPE VALVE LIFTER

A compact powerful lifter, simple and extremely fast to operate.

Designed for valve-in-head engines, but also services Ford flat head V-8's. Handles valves up to 6¾" long. Ram travels by means of a rack and pinion, with ratchet stop and slidable handle rod. Adjustable stop gives quick, convenient control of ram travel, an arrangement which avoids unwieldy wide-open frame operation.

Complete with adjustable width straight and off-set jaws. Exclusive design off-set jaws handle Dodge and Plymouth V-8 engines.

Part No. 1397	C-Type Valve Lifter
1398	Replacement Straight Jaws, pair
1399	Replacement Step Jaws, pair
1395	Replacement Gear

VALVE SPRING COMPRESSORS

for Ford and Chevrolet Valve in Head V-8's



Part No. 1427 for Ford V-8's 1954 and later models,

Hook inserts through push rod hole and engages corner at lower end. Depress handle to compress spring. Keepers are easily removed. Made of cadmium plated steel. Hooks are heat treated for long wear.



Part No. 1428 for Chevrolet V-8's

Similar in design to No. 1427 except hook is shorter and slot is provided to slip over Chevrolet studs. Made of cadmium plated steel. Hooks are heat treated for long wear.



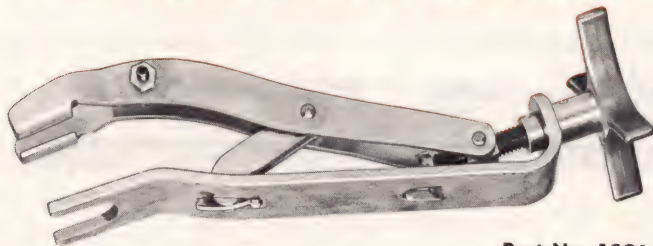
PRODUCTION LINE VALVE PULLER

for Ford V-type engines

The fastest and most rugged valve tool on the market for removing V-8 valve assemblies. Sturdily built of drop forgings—tested under actual production line rebuilding service. Will not damage valves or valve springs. Valve guide retainer puller has easily replaceable tip. Only two parts—the valve puller and key puller. For easy operation and fast, positive action, there's nothing like it.

Part No. 1017	Production Line Valve Puller
1011	Replacement Jaw with Rivets
1013	Key Puller
1014	Key Puller Tip

V-8 VALVE LIFTER AND SPRING COMPRESSOR



Part No. 1396

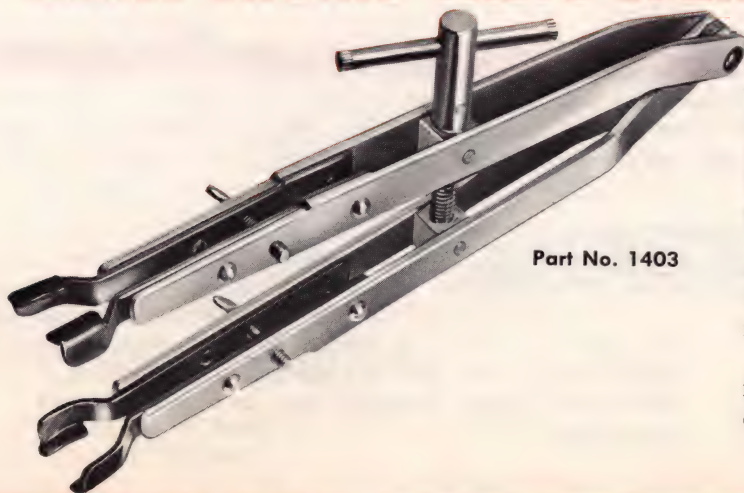
Here's a short powerful lifter designed for use in cramped areas around hard to get at valves. This latest version of the screw type lifter incorporates the necessary fea-

tures of high lift, abundant room for inserting and removing valve keys, heavy duty construction, and has the special feature of reverse operation for re-installing springs.

To compress a spring for removal, simply turn hand screw counter-clockwise. To lift a spring, turn clockwise. Tool holds automatically at any point.

Lower jaw and frame are one solid piece of case hardened steel. Upper jaw is tempered spring steel. A sturdy tool designed and constructed to give years of service.

SMALL ENGINE VALVE SPRING COMPRESSOR



Part No. 1403

The ideal tool for removing and replacing valve springs in Briggs and Stratton, Clinton and other small engines. Long slender design enables this tool to reach into the small recesses in these engines and deftly do the job.

Spring steel jaws have thin edges that easily slide over and under the ends of the valve spring to compress it for removal. Thumb screw adjustment widens or narrows jaws to fit valve springs.

A simple, positive tool with ample strength and nothing to get out of order. Made entirely of steel with cadmium finish.



HYDRAULIC LIFTER TOOLS

Part No. 3181

Stop fishin' and fussin' on hydraulic valve lifter jobs. Hastings Hydraulic Valve Lifter Tools remove and disassemble stuck lifters in a matter of minutes. Even the toughest jobs are easy with these specially designed tools.

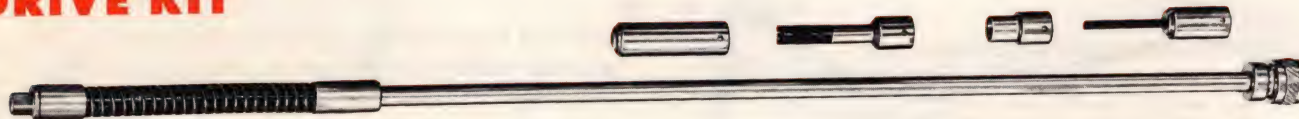
Universal applications—one set of tools for all hydraulic valve lifter jobs.

Set includes pulling chuck, slide hammer, and disassembly tool.

Pulling Chuck fastens to lifter by means of expanding split ring that engages the lock ring groove at top of lifter. Plunger on bottom of chuck releases lifter check valve.

Slide Hammer is inserted through push rod opening and connected to pulling chuck to remove lifter. A few bumps up and down with slide hammer frees even the most tightly stuck lifter.

FLEXIBLE DRIVE KIT



One of the handiest "Gizmos" in a tool box. A great variety of uses but especially handy for adjusting late model Delco Remy distributors on V-8 engines, and all hard to get at carburetor adjustment screws.

Kit includes flexible driver and four adapters:

- 1/8" hex adapter for adjusting distributors
- screw driver adapter for carburetor adjustments and other uses

screw starter adapter for quickly locating and starting screws

magnet adapter for easy recovery of dropped parts in hard to reach places.

Part No. 3193	Flexible Drive Kit
1048	Set of 4 Adapters
1074	Flexible Drive Shaft

SPLIT LOCK REPLACER



Part No. 3185

For all engines using valve stem split lock.

This handy time saver makes quick work out of an awkward job. It quickly positions lock on stem without hunting or dropping of locks. Holds locks right in posi-

tion until lock retainer is lowered to receive them. Slim sturdy design. Just the right size and shape to work in the tightest blocks. Ruggedly built to withstand years of hard use.

MUFFLER AND TAIL PIPE RESIZER

Part No. 1096

Save time, temper and fingers with this new muffler and tail pipe resizer. Just insert all three rollers of this precision rolling tool into distorted muffler or tail pipe joints. Rotate tool and in seconds you remove nicks, dents and old clamp ridges. Assures easily assembled, gas tight connections. Equally effective with both old and new pipes.



MUFFLER & TAIL-PIPE CUTOFF TOOL

Here's a handy new tool that makes tail-pipe removal fast and easy — and without scratched knuckles and mashed fingers. Four knife-edged cutting wheels cut fast and clean. No crushing or rolling under. Cutters expand by turning handle. No clamps or other locking devices.

Part No. 1046

1461 Replacement Set of Cutters and Pins



PISTON SNAP RING TOOL

Part No. 1430

Remove and install snap rings the quick easy way with Hastings new versatile, replaceable-tip Snap Ring Tool. Just one low cost investment for sturdy long-lasting tool, and double end replaceable tool steel tips. If a tip breaks or becomes worn, there's no need to discard the tool, simply reverse the tip and you are ready or work with no delay, no cost.

Equipped with both straight and 45° angle tips to handle a wide variety of snap ring installations. This one flexible tool works in the tightest quarters and easily does the work that formerly required several tools in a variety of sizes.

Replaceable double-end tips available:

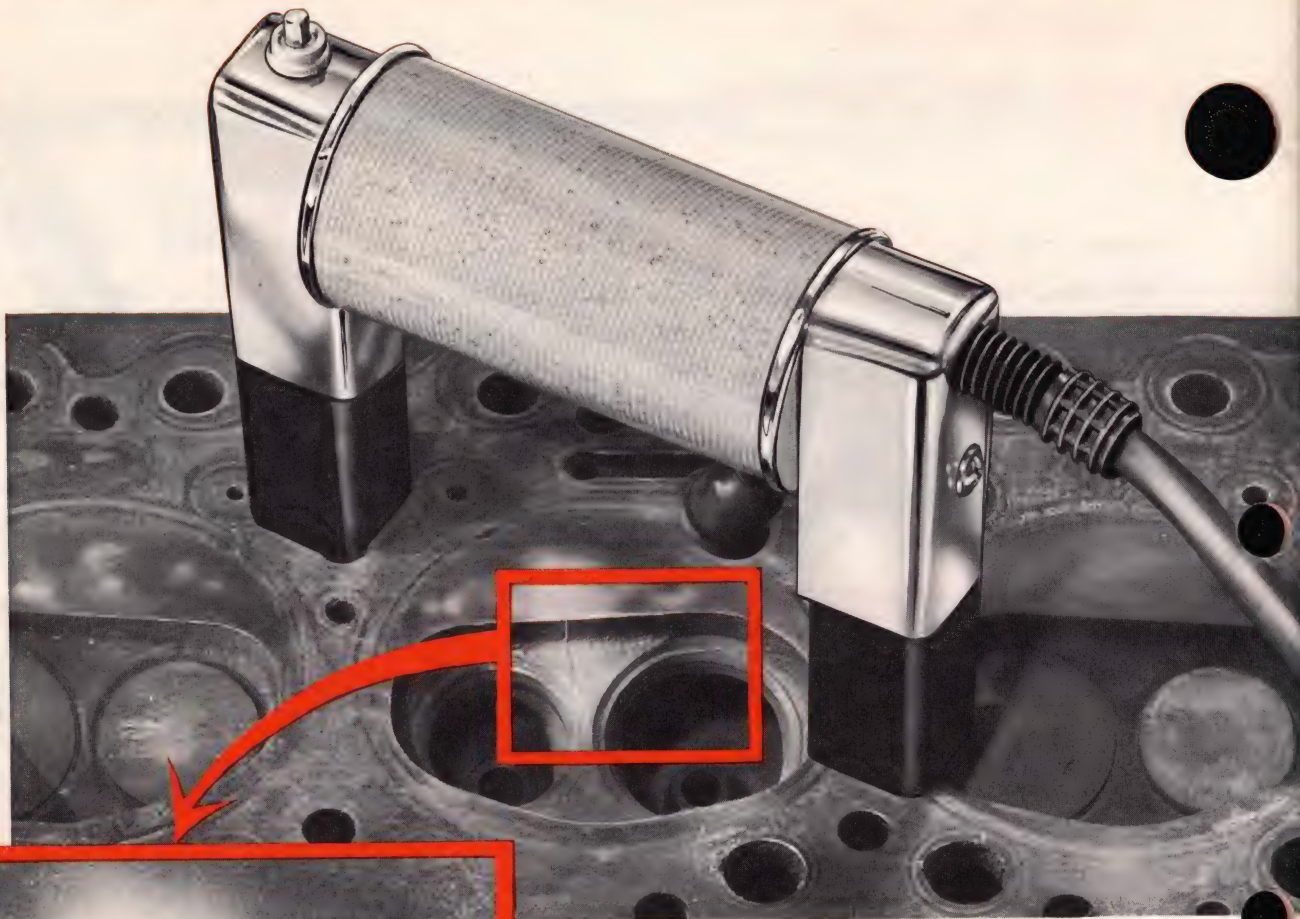
Part No. 1429 45° Angle Tip

1431 Straight Tip



CRACK FINDER

Part No. 1033



Here's a real problem solver. Ever had a job where every indication points to a cracked head or block and yet careful visual inspection reveals nothing? Cracks that open under heat and pressure of engine operation frequently cannot be detected in a disassembled cold part, but Hastings Magnetic Crack Finder quickly locates them.

Simply plug in to 110 AC outlet, place Crack Finder across suspected area and switch on power and spray magnetic dust between poles. If a crack is there, it quickly is defined by powder outline.

An extremely handy portable tool that has all the power of cumbersome more expensive equipment



costing many times more. Extremely rugged construction. A one-time investment that will pay off for years.

Transformer, electromagnet, atomizer, metallic dust, and attachment cords all included in one sturdy metal carrying case.

Part No. 1033	Hastings Crack Finder
1042	Powder (Gray) 1 lb. Jar
1054	Powder (Blue) 1 lb. Jar
1055	Powder (Red) 1 lb. Jar
1064	Atomizer
1068	Powder (Gray) 25 lb. can

THERMOFIT PIN FITTER

Part No. 3194

For safe-fast economical installation of interference fit piston pins in Cadillac, Chevrolet, Buick, Hudson, Rambler, Nash and others.

This special design electric furnace utilizes the same process for installing interference fit pins used by the car manufacturers. Furnace expands the eye of the connecting rod so piston pin can be installed with finger pressure. Eliminates broken pistons, scored pins, packing metal in the pin boss, and other hazards encountered when piston pin is forced through the rod cold.



UNIVERSAL INSTALLATION GAUGE

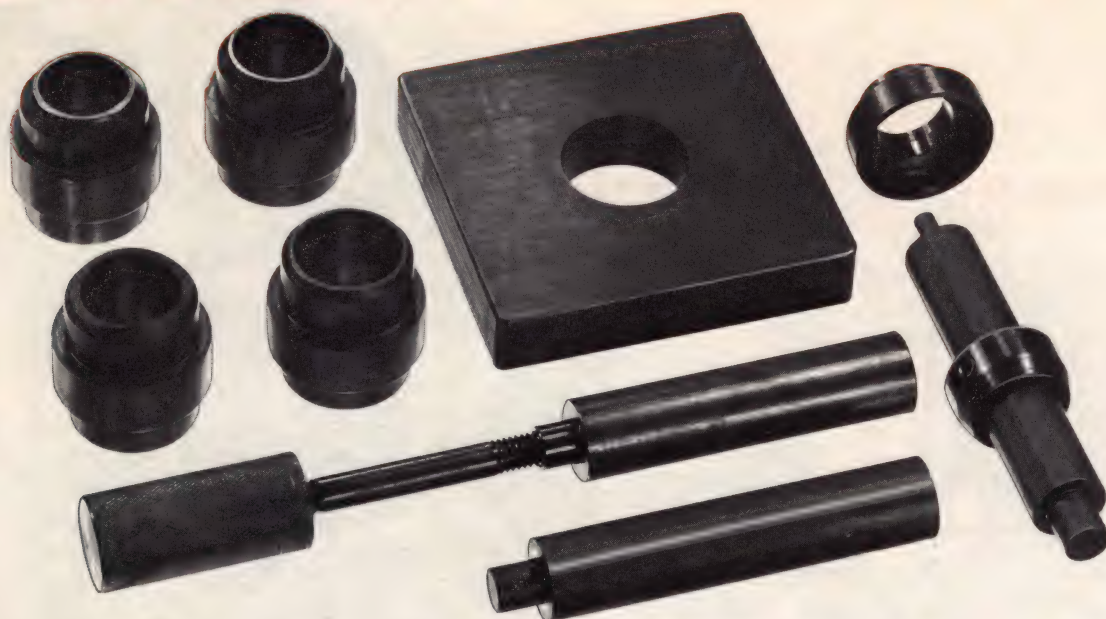
Part No. 3197



Adjustable gauge quickly and easily installs and centers rods on interference fit piston pins. Set gauge before disassembling piston and rod assembly. Loosen allen set screw and slide collar back. Insert small end of gauge in pin hole and push until rod contact op-

posite pin boss. Slide collar back until contact is made with piston and lock collar. Gauge is now set and ready to quickly determine centered position when reassembling piston. A universal gauge for all pistons except Rambler 6 cylinder.

PISTON PIN EXTRACTOR KIT



Remove interference fit piston pins the easy, speedy way with this handy kit of press fixtures.

4" x 4" base block adapts to any conventional press and accommodates the various free fitting fixtures.

No. 1 fixture removes Chevrolet and Buick pins .900 — .950

No. 2 fixture removes Pontiac, Cadillac and other pins .950 — 1" plus .010.

No. 3 is a concave fixture for high performance engines with round pin bosses. Handles pins up to 1" plus .010.

No. 4 removes larger diameter pins up to 1.110", such as the 1 $\frac{3}{32}$ " Dodge Truck engine.

Kit also includes adaptor unit for No. 1 and 2 fixtures to remove pins .850 — .900, such as the Rambler 6 cylinder, and drifts for both solid and hollow pins.

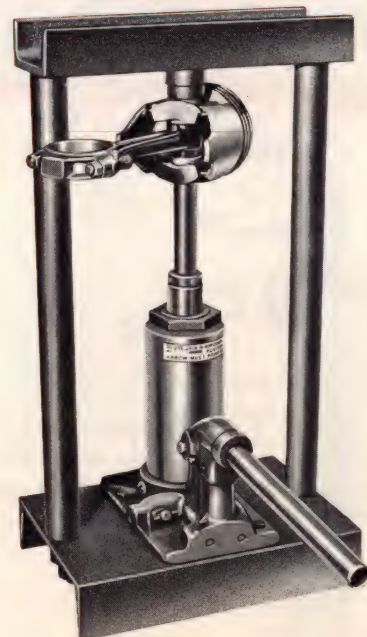
Shipping weight 8 lbs.

Part No.	1435	Piston Pin Extractor Kit
	1441	Base Block
	1438	No. 1 Fixture
	1437	No. 2 Fixture
	1436	No. 3 Fixture
	1434	No. 4 Fixture
	1433	Pin Removal Guide Fixture
	1432	Drift Pin
	3198	Rambler 6 cylinder installation gauge and removal fixture

UNIVERSAL PIN REMOVAL PRESS

Part No. 3195

5 ton capacity hydraulic press with all fixtures necessary for speedy removal of pins from interference fit pistons. Convenient small size takes up little room and is especially adapted for your pin fitting department.



VALVE REFACING LATHE

Part No. 1425



A low priced, hand operated valve refacing lathe designed especially for small repair shops not equipped with power operated tools, and shops lacking hi-line current. It is compact, with plenty of weight to prevent chatter and vibration and does a complete, precision job. The automatic feed is timed for smooth cutting.

This Lathe handles 30, 45, and 60° angle valves with up to $\frac{3}{8}$ " stems and valve heads to $2\frac{1}{4}$ " diameter. (Will not handle Ford mushroom valves). It refaces valves used in small stationary gasoline engines. Holes in base for attachment to work bench but heavy enough to use without attaching.

Can be used in vise with steel lugs provided. Shipping weight, packed in individual wooden case, 15 lbs.

Note: After valves have been refaced, valve grinding compound should be used to lap them into the valve seats to assure proper compression.

Part No. 1426 Replacement Carbide Cutter

SPECIAL FEATURES — Two universal joints in feed shaft. Reversible feed, so cuts can be made in either direction. Equipped with Jacobs Chuck, Carbide Cutter and Adjustable Slide.

UNIVERSAL SPRING TESTER



Part No. 1078

Springs are called on to do almost unbelievable tasks in an engine. For example, an ordinary valve spring must operate 90,000 times an hour at average driving speeds, keep it up hour after hour, Summer and Winter, year after year. A weak spring or inaccurately matched springs greatly reduces the performance efficiency of the entire engine.

Now with Hastings' new spring tester you quickly and accurately test a spring's performance and know in advance how it will perform in the engine.

With a Spring Tester and any standard torque wrench, you can instantly measure the back pressure of coiled springs up to 7" free length and up to $2\frac{1}{2}$ " diameter, with a range of 4 to 400 lbs. spring load.

Pressure at all critical points of compression can be checked and you can accurately match sets of springs for identical performance. Ideal for valve springs, clutch springs, etc.

PISTON LATHE

A sturdy, efficient hand lathe to straighten ring lands, widen and deepen ring grooves. Extremely accurate and adaptable for all pistons 3" to 5 $\frac{3}{4}$ " diameter. No complicated adjustments and no shims required.

Special ring depth gauge attachment controls depth of cut for proper Steel-Lock installation. Prevents over or under cutting. Makes spacer installation fast and easy.

Long life Carboly cutters available in various groove sizes for installing Hastings Perma-Liners, Regroove Spacers, and Steel Lock Spacers. See listing on next page. Cutters Nos. 1274, 1276, and 1905 supplied with Piston Regroover.

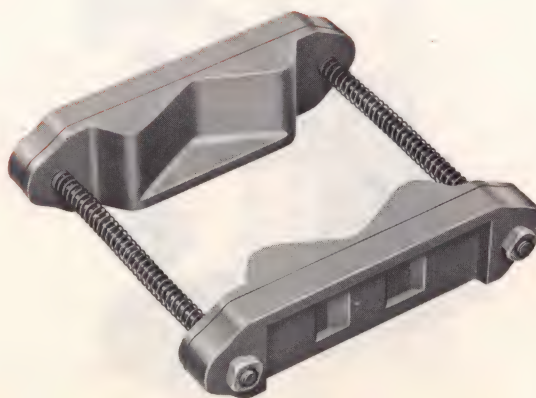
Part No. 1920



PISTON VISE ATTACHMENT

Part No. 1945

This carefully designed vise attachment holds piston securely and safely for all piston work. Prevents damage to piston during the regrooving operation and holds piston securely for installing steel-lock spacers and rings. It inserts in a regular machinist's vise and is instantly adjustable for pistons 1" to 4" in diameter.



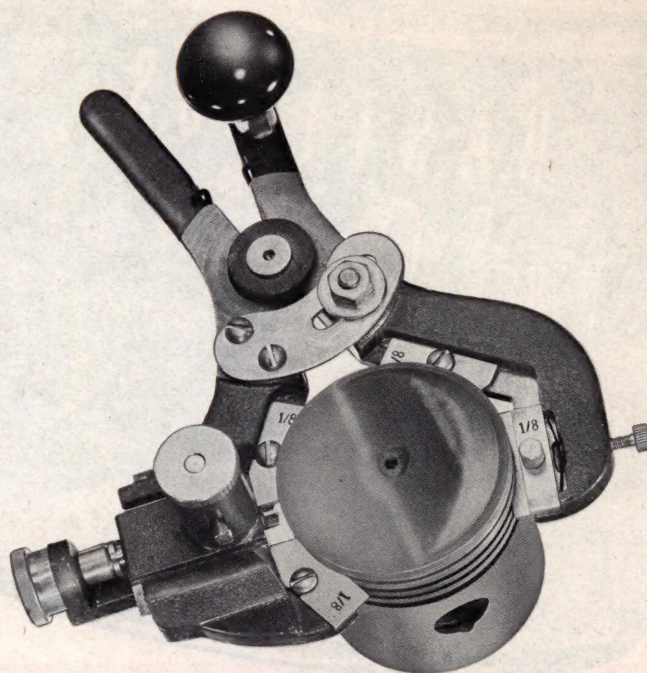
PISTON REGROOVER

Smooth, easy lathe type action quickly and accurately reconditions worn or damaged top ring grooves on all pistons 2-4½" diameter.

- *Precision Work* — Guide plates hold precision ground cutter on true line.
- *Simple to adjust* — Handles like a pair of pliers.
- *Turns Easily* — Spring loaded cutter and guide blocks eliminate binding and chatter.
- *Wide Range* — Covers passenger cars, light and medium trucks and many small engines.
- *Economical* — A money maker for any engine shop.
- *Versatile* — May be used as hand tool or used with a power turning lathe.

EXTREMELY FAST AND EASY TO OPERATE — Select and insert proper cutter. Insert guide plates in second groove and tighten lock nut. Adjust cutter to meet top ring groove and advance feed screw. Turn out the ring groove. Complete instructions included with each tool.

Long life Carboloy cutters available in various groove sizes for installing Hastings Perma-Liners, Regroove Spacers, and Steel Lock Spacers. See listing below. Cutters Nos. 1274, 1276, and 1905 supplied with Piston Regroover.



Part No. 1027

CARBOLOY GROOVE CUTTERS

for use with No. 1920 Piston Lathe and No. 1027 Piston Regroover



Regroove Spacer or Perma-Liner Installations	
Part No. 1274	to widen 5/64" grooves
1276	to widen 3/32" grooves
1277	to widen 1/8" grooves
1278	to widen 5/32" grooves

Steel-Lock Spacer Installations

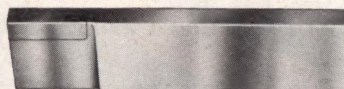
.024 Widths	
Part No. 1904	to widen 3/32" grooves
1905	to widen 1/8" grooves
1906	to widen 5/32" grooves
1907	to widen 3/16" grooves
1909	to widen 1/4" grooves
1911	to widen 5/64" grooves



Steel-Lock Spacer Installations

.030 Widths	
Part No. 1447	to widen 5/64" grooves
1448	to widen 3/32" grooves
1449	to widen 1/8" grooves
1450	to widen 5/32" grooves
1451	to widen 3/16" grooves

for use with Corrector Lathe



Regroove Spacer or Perma-Liner Installations

Part No. 1136	to widen 3/32" grooves
1137	to widen 1/8" grooves
1897	to widen 5/64" grooves



Steel-Lock Spacer Installations

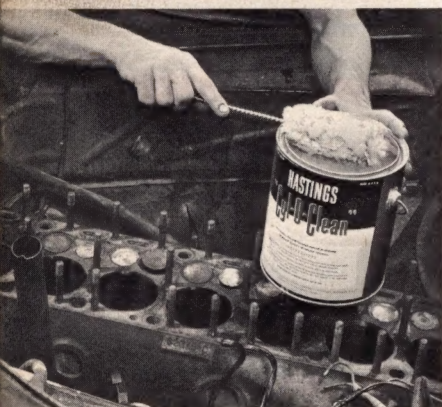
.024 Widths		.030 Widths	
Part No. 1324	to widen 5/64" grooves	Part No. 1452	to widen 5/64" grooves
1325	to widen 3/32" grooves	1453	to widen 3/32" grooves
1326	to widen 1/8" grooves	1454	to widen 1/8" grooves
1899	to widen 5/32" grooves	1455	to widen 5/32" grooves
1900	to widen 3/16" grooves	1456	to widen 3/16" grooves
1901	to widen 1/4" grooves		



The Easy, Sure Way to Clean Cylinders in Seconds

and get every job
completely clean!

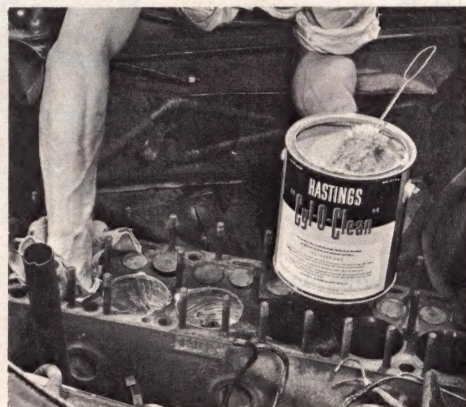
Use a mop-type applicator or clean
cloth to apply Cyl-O-Clean.



Coat entire cylinder wall surfaces
—let set a few seconds.



Wipe clean with cloth or absorbent
paper—job is finished.



Here at last is the answer to the problem of getting reconditioned cylinders really clean. It's Hastings Cyl-O-Clean . . . a radically new product that takes the drudgery and guesswork out of cleaning de-glazed, honed and rebored cylinders.

Realizing the importance of cylinder cleaning, Hastings engineers developed Cyl-O-Clean to make this operation fast and easy, yet assures a thorough cleaning job.

Cyl-O-Clean eliminates the old-fashioned, messy soap and water method.

Cyl-O-Clean speeds cleaning and does a better job because it quickly emulsifies, penetrating the pores of the metal. When wiped off, all abrasives,

gums and varnishes are picked up, leaving cylinders "handkerchief clean."

An 8 cylinder block can be cleaned in ten minutes or less—at less than a penny a hole. That's a saving in time and money no repairman can afford to overlook.

Available in 16 oz. can and 1 gallon cans.

Part No.	Size	Case Quantity	Shipping Weight
1294	16 oz. can	12	21 lbs.
1296	1 gallon can	4	32 lbs.
1297	Applicator		



Part No. 1164

MASTER CATALOG RACK

Big capacity fluorescent lighted counter catalog file. Capacity 28 one inch file sections. Tilted base for easy reading and wing supports at both ends. Black crackle finish trimmed in chrome. Adjustable fluorescent fixture mounts above rack to provide excellent, non-glare illumination of entire rack area.

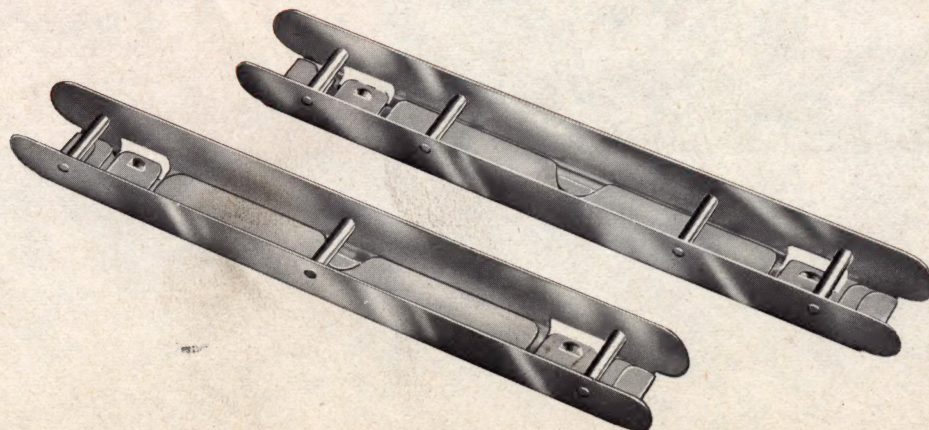
Supplied with 10 four-post file sections and 6 foot cord. Shipped less fluorescent tube. Overall length 38 inches. Shipping weight 40 lbs.

DEALER CATALOG RACK

A handy permanent file for catalogs, price sheets, bulletins, manuals and other reference material used daily. Wings allow pages to open wide and lie flat. Base tilted for easy reading from standing or sitting position. Twelve section capacity, four 4-post file sections included with unit. Size 12" x 17". Shipping weight 8 lbs.



Part No. 1162



CATALOG RACK FILE SECTIONS

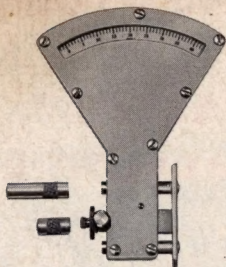
Part No. 1166

4-post file sections for Kalamazoo punched material.

Part No. 1172

3-post file sections for 3-ring punched material.

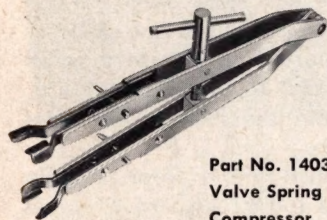
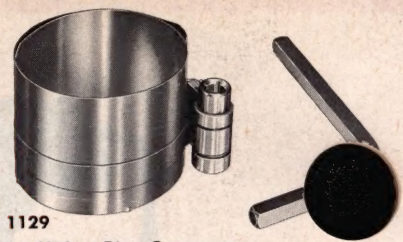
Part No. 1424
Cylinder Gauge



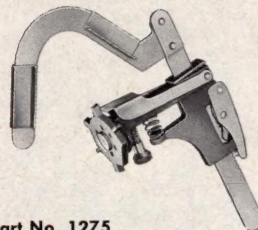
Part No. 1113
De-Glazer



Part No. 1129
Conemaster Midget Ring Compressor

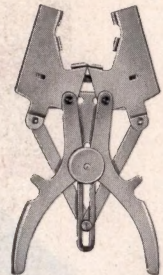


Part No. 1403
Valve Spring
Compressor

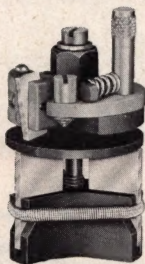


Part No. 1275
Multi-Blade Groove Cleaner

Part No. 1258
Ring Expander and
Installation Tool



Part No. 1261
Baby Saf-T-Blade
Ridge Reamer



TOOLS FOR SMALL ENGINES

outboard motors, power lawn mowers, garden tractors, chain saws, and other small power units

Servicing small bore engines is a rapidly growing business. And small bore engines require tools especially designed for work on them. Recognizing this need Hastings offers these tools designed to service engines with 2" to 3" diameter bores.



Part No. 1008
Inch Pound
Torque Wrench

Part No. 1168
Compression Tester



**Call your Hastings piston ring jobber
for the tools you need!**

Hastings Manufacturing Company
Hastings, Michigan
Hastings Ltd., Toronto
Export Dept., 4900 Euclid Ave.,
Cleveland 3, Ohio, U.S.A.